DEPARTMENT OF THE ARMY

FY 1997 BUDGET ESTIMATE
SUBMITTED TO CONGRESS MARCH 1996



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DEFENSE BUSINESS OPERATIONS FUND

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ARMY OVERVIEW

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ARMY OVERVIEW

BACKGROUND

The Department of the Army has historically operated a significant number of its organic commercial and industrial facilities under revolving fund concepts to encourage these activities to function in a more efficient and businesslike manner and to provide the additional flexibility needed to properly manage these facilities under changing workload conditions. The support services provided by the Defense Business Operations Fund businesses are absolutely essential to the success of the Operating Forces, and the businesses themselves are an integral part of the defense team.

ARMY-MANAGED BUSINESSES

The Army manages four business areas within the Defense Business Operations Fund.

Supply Management, Army. This business area buys and maintains assigned stocks of materiel for sale to its customers, primarily Army operating units. The availability of this materiel is linked to equipment and operational readiness and the war fighting readiness and abilities of Army units. The business area consists of a wholesale division and separate retail divisions for Army major commands. One other retail division is organized by function. The wholesale division is organized by type of secondary item with four major subordinate commands managing consumable and reparable items. The division also includes one program for DLA-managed prepositioned war reserves under Army control.

<u>Depot Maintenance - Other</u>. This business area maintains end items and depot-level reparables. Its mission encompasses the full range of depot maintenance services, including overhaul, rebuild, conversion, renovation, modification, repair, inspection and test, manufacture, fabrication and reclamation of materiel, as well as other maintenance support services. Installations store, maintain, distribute and demilitarize ammunition, and perform base support host operations. The business area consists of twelve government-owned and operated depots and depot activities.

ARMY OVERVIEW

Depot Maintenance - Ordnance. The mission of this business is to manufacture, renovate and demilitarize ordnance materiel for all services within the Department of Defense and foreign military customers. The business consists of three arsenals and two ammunition plants that provide depot operations, depot maintenance, set assembly, tenant support and national procurement services for thin and thick walled cannon. The five activities are responsible for logistics management including follow-on procurement, production, maintenance, engineering and integrated logistics support management.

<u>Information Services</u>. This business is new in FY 1996 and its mission is to provide for the development and operational sustainment of automated information systems (i.e., requirements definition, system design, development, testing, integration, implementation support, and documentation services) to be performed at five development centers. These functions were formerly financed in an appropriated-fund environment.

In October 1995, the Industrial Operations Command (IOC) became operational. The IOC, located at Rock Island, Illinois, consolidates management of former Army Armament, Munitions and Chemical Command (AMCCOM) elements, including Army Depot Maintenance - Ordnance, and Army Depot Maintenance - Other (formerly managed by Depot Systems Command (DESCOM)). The IOC commands all Army depots, depot activities, ammunition plants, three arsenals, and other Army industrial activities. This consolidation results in savings in management headquarters costs.

In fiscal year 1996, the depot maintenance business areas will decapitalize the chemical demilitarization and storage mission to the U.S. Army Chemical Biological Defense Command (CBDCOM). The CBDCOM will be considered a tenant on the affected installations and will reimburse the business areas for base support costs.

ARMY OVERVIEW

PERSONNEL RESOURCES

A key objective of the Army-managed DBOF businesses is to have the optimum mix of appropriately skilled people to match workload requirements. Reductions will be accomplished, to the maximum extent possible, through voluntary separations and hiring freezes. As a result, skill mismatches between the workforce and the workload requirements may be created. Such mismatches may cause unprogrammed losses as the Department dramatically downsizes.

Civilian and military end strengths and workyears, by business area, are as follows:

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY			
CIVILIAN END STRENGTH	4,152	4,100	3,846
CIVILIAN WORK YEARS (REGULAR)	4,532	4,287	3,974
MILITARY END STRENGTH	12	22	15
MILITARY WORK YEARS	52	24	18
DEPOT MAINTENANCE - OTHER			
CIVILIAN END STRENGTH	16,127	15,736	14,941
CIVILIAN WORK YEARS (REGULAR)	17,429	15,900	16,218
MILITARY END STRENGTH	421	234	121
MILITARY WORK YEARS	385	221	112
DEPOT MAINTENANCE - ORDNANCE			
CIVILIAN END STRENGTH	5,715	5,474	5,462
CIVILIAN WORK YEARS (REGULAR)	5,500	5,498	5,452
MILITARY END STRENGTH	__ 59	27	24
MILITARY WORK YEARS	50	25	23
INFORMATION SERVICES			
CIVILIAN END STRENGTH	NA	908	847
CIVILIAN WORK YEARS (REGULAR)	NA	1,004	881
MILITARY END STRENGTH	NA	300	267
MILITARY WORK YEARS	NA	300	. 236

ARMY OVERVIEW

COST OF GOODS SOLD

Total costs declined during the budget years as a result of mission transfers, elimination of missions, and BRAC-related workload reductions. Costs are reflected below by business area (\$M):

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY	9,714.5	9,986.4	8,719.3
DEPOT MAINTENANCE - OTHER	1,574.7	1,643.0	1,596.3
DEPOT MAINTENANCE - ORDNANCE	569.7	541.0	528.1
INFORMATION SERVICES		173.8	137.7

NET AND ACCUMULATED OPERATING RESULTS. The DBOF operates on a break-even basis over the budget cycle. The Army sets annual revenue rates to achieve positive or negative results, in order to bring accumulated operating results to zero in the budget years. The business area's effectiveness is measured by comparing performance to goal, rather than simple calculation of net operating results. Net and accumulated operating results are reflected below (\$M):

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY			
Net Operating Result	56.7	6.5	(13.0)
Accumulated Operating Result	6.5	13.0	-0-
DEPOT MAINTENANCE - OTHER			
Net Operating Result	109.5	(26.1)	47.6
Accumulated Operating Result	(21.5)	(47.6)	-0-
DEPOT MAINTENANCE - ORDNANCE			
Net Operating Result	42.8	(3.5)	1.5
Accumulated Operating Result	2.0	(1.5)	-0-
INFORMATION SERVICES			
Net Operating Result		-0-	- 0 -
Accumulated Operating Result		-0-	-0-

ARMY OVERVIEW

CAPITAL BUDGET

The businesses seek to maintain and develop capabilities through equipment acquisition and the execution of minor construction projects. The budget request provides for equipment acquisition to replace obsolete and unserviceable equipment, repair processes modernization, elimination of environmental hazards, and decrease in repair costs through productivity improvements. The following table displays the capital budget authority for FY 1995 through FY 1997, by business area (\$M):

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY	18.976	15.523	26.905
DEPOT MAINTENANCE - OTHER	23.820	53.158	67.492
DEPOT MAINTENANCE - ORDNANCE	6.559	21.762	17.469
INFORMATION SERVICES	-0-	-0-	-0-

UNIT COSTS

Unit costing is the methodology established in the DBOF to authorize and control costs. Unit cost goals allow activities to respond to workload changes by setting goals to reduce costs when workload declines and to provide for the additional cost authority necessary to meet increased customer demand. However, in spite of productivity initiatives and transfers of some functions, Depot Maintenance unit costs are rising as a result of fixed costs being spread over a decreasing order base.

The following unit cost goals have been established for the Army-managed businesses:

ARMY OVERVIEW

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY			
Wholesale: Cost/S Gross Sales	\$.81	\$.81	\$.93
Retail: Cost/\$ Gross Sales	\$1.00	\$.98	\$1.00
DEPOT MAINTENANCE - OTHER			
\$ per Direct Labor Hour	\$82.12	\$89.12	\$92.04
DEPOT MAINTENANCE - ORDNANCE			
\$ per Direct Labor Hour	\$89.00	\$92.04	\$91.65
INFORMATION SERVICES			
\$ per Direct Labor Hour			\$61.75

CUSTOMER RATE CHANGES

In FY 1997 business area rates have been set to recover prior year losses or return prior year gains. Rate changes are expressed as a percentage change from the rate charged in the previous year. The FY 1996 rate decreases in the depot maintenance businesses are primarily due to return of prior year gains. Rate changes are shown in the following table. In FY 1997, the Supply Management business is replenishing fewer stocks than are sold. The savings generated from this difference between sales and replenishment is being returned to customers in the form of reduced prices (6% lower than FY 1996).

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY	8.0%	5.4%	(6.0%)
DEPOT MAINTENANCE - OTHER	15.6%	(23.1%)	6.9%
DEPOT MAINTENANCE - ORDNANCE	25.8%	(14.1%)	4.9%
INFORMATION SERVICES	NA	NA	2.2%

REVENUE

The following table displays expected revenue by business area (\$M):

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY	9,817.5	10,129.4	8,569.6
DEPOT MAINTENANCE - OTHER	1,775.0	_,	1,660.9
DEPOT MAINTENANCE - ORDNANCE	615.7	537.5	529.6
INFORMATION SERVICES		173.8	137.7

ARMY OVERVIEW

WORKLOAD

Generally, workload is declining in the budget years due to continued downsizing of the operating forces. In the Supply Management business, area workload reductions in pipeline replacements are based on efforts to decrease lead-times.

	FY 1995	FY 1996	FY 1997
SUPPLY MANAGEMENT, ARMY			
Line Items Managed	189,834	174,299	170,256
Requisitions Received (\$M)	\$4,381.6	\$4,205.6	\$4,024.9
Receipts	390,646	327,802	376,478
Issues	1,487,458	1,248,168	1,433,513
Contracts Executed	10,778	10,899	11,489
DEPOT MAINTENANCE - OTHER			
DLH 000	19,175	18,435	17,417
DEPOT MAINTENANCE - ORDNANCE			
DLH 000	6,401	5,878	5,726
INFORMATION SERVICES			
DLH 000			2,230

CUSTOMER REVENUE RATES

In the Depot Maintenance and Information Services business areas, customer revenue rates are set per direct labor hour. These rates are stablized so that the customer's buying power is protected in the year of execution. The following table shows the revenue rate per direct labor hour for these businesses:

	FY 1995	FY 1996	FY 1997
DEPOT MAINTENANCE - OTHER	\$109.51	\$84.24	\$90.07
DEPOT MAINTENANCE - ORDNANCE	\$98.73	\$84.78	\$88.93
INFORMATION SERVICES			\$64.89

ARMY OVERVIEW

SUPPLY INVENTORY AND MATERIAL REPLACEMENT

The Supply Management business area inventory has decreased by over \$2 billion from FY 1994 (\$13.4B) to FY 1995 (\$11.3B). Force structure changes, the Reduced Price Initiative, and the Army Total Inventory Management program are all contributing factors to the decrease. On going leadtime reduction initiatives should lead to continued inventory reductions.

The Supply Management business area was limited by law in materiel replacement rate (the percentage of sales that can be re-ordered) from 1991 to 1995. The FY 1997 budget was not built on a constrained replacement rate, but is still less than the FY 1995 replacement limit of 65 percent.

PERFORMANCE INDICATORS

Performance indicators for the depot maintenance and information services business areas are labor hour costs, net operating results, and unit cost. In addition, schedule conformance is another indicator for depot maintenance. The goals for these are to execute labor hour costs at or below budgeted levels, to achieve or exceed budgeted operating results, and, for depot maintenance, to complete at least 95% of items worked on schedule.

Stock availability measures the percentage of Supply Management, Army (SMA) requisitions satisfied upon initial processing in the wholesale supply system. The SMA target for Stock Availability is 85 percent. FY 1996 and FY 1997 budget requirements are based on the 85 percent target. SMA is meeting/exceeding performance standards as indicated by the following actual performance data.

Quarter	Percent
1st, FY 1995	88.1
2d, FY 1995	87.2
3d, FY 1995	87.1
4th, FY 1995	86.5
1st, FY 1996	85.5

ARMY OVERVIEW

COST OF DEPOT LEVEL REPARABLES

The cost of Depot Level Reparables (DLRs) in the Supply Management business area continues to decrease, consistent with the decrease in DLR demands and sales. The Army has fully implemented the Stock Funding Depot Level Reparables initiative and continues to exceed the target demand reduction goals. The reduced demands are the result, in part, of increased field level diagnostics and authorized repair of DLRs.

DEFENSE BUSINESS OPERATIONS FUND - ARMY REVENUE AND EXPENSES (Dollars in Millions)

	FY 1995	FY 1996	FY 1997
Revenue:	12,208.3	12,474.1	10,897.8
Gross Sales	12,208.3	12,474.1	10,897.8
Operations	12,044.3	12,330.8	10,755.2
Capital Surcharge	93.7	67.7	69.6
Depreciation	70.3	75.7	72.9
Expenses:			
Cost of Material Sold from Inventory	6,410.9	6,681.4	5,666.6
Negotiated Purchases from Customers	2,612.4	2,665.0	2,402.2
Transportation	64.0	59.7	60.7
Salaries and Wages:	1,326.1	1,360.2	1,389.5
Military Personnel	19.4	21.3	16.4
Civilian Personnel	1,306.8	1,338.9	-
Materials, Supplies & Parts Used in Operations	553.4	587.0	468.4
Facility Repair & Maintenance	56.7	69.7	72.6
Depreciation/Amortization	70.3	75.7	72.9
Contracted Engineering Services	1.2	3.8	3.8
Tease Costs	20.4	22.7	23.5
Purchased Utilities	33.4	34.7	35.4
Purchased Communications	2.5	2.6	2.7
Equipment Maintenance by Contract	18.3	50.5	28.0
Fuel	13.5	14.6	14.0
Other Expenses	700.3	708.6	732.2
Cost of Goods Produced:	11,883.4	12,336.0	10,972.3
Change in WIP	24.6	(8.2)	(9.1)
Cost of Goods Sold:	11,858.8	12,344.2	10,981.4
Operating Result:	349.5	129.9	(83.6)
Less Capital Surcharge Reservation	93.7	67.7	69.6
Prior Year and Other Adjustments	46.7	0.0	0.0
Other Changes Affecting NOR/AOR	•	85.3	(189.3)
Net Operating Result:	209.1	(23.1)	36.1
Prior Year AOR (adjusted)	(222.0)	(12.9)	(36.1)
Accumulated Operating Results	(12.9)	(36.0)	0.0

DEFENSE BUSINESS OPERATIONS FUND - ARMY

SOURCE OF REVENUE (NEW ORDERS) (Dollars in Millions)

		FY 1995	FY 1996	FY 1997
1	New Orders			
	a. Orders from DoD Components:			
	Army	7,089.8	7,115.6	6,060.5
	Navy	189.6		133.2
	Air Force	230.8	190.0	163.9
	Marine Corps	94.0	96.1	73.0
	DLA	122.4	128.8	113.4
	Other DOD	689.8	713.0	687.4
	b. Orders from other Fund Business Areas:	3,313.4	3,100.0	2,785.0
	c. Total DoD	11,729.9	11,499.4	10,016.5
	d. Other Orders:	455.7	566.1	518.4
	Other Federal Agencies	49.8	50.0	45.2
	Foreign Military Sales	376.4	477.9	437.6
	Non-Federal Agencies	11.4	13.7	16.2
	All Other	18.0	24.5	19.3
2.	Carry-in Orders	1,367.3	1,176.6	967.9
з.	Total Gross Orders	13,552.9	13,242.0	11,502.7
4.	Change to Backlog	1,344.6	767.9	604.9
5.	Total Gross Sales	12,208.3	12,474.1	10,897.8

DEFENSE BUSINESS OPERATIONS FUND - ARMY MATERIAL INVENTORY DATA (Dollars in Millions) FISCAL YEAR 1995

			Peacet	cime
	Total	Mobilization	Operating	Other
Materiel Inventory BOP	13,336.0	1,808.5	5,967.8	5,559.7
BOP Reclassification Changes	0.0	(92.8)	(1,383.5)	1,476.3
Price Changes	1,051.5	53.8	537.7	460.0
Receipts from Commercial Sources	6,126.7	73.6	6,028.9	24.2
Negotiated Purchase from Customers and Returns without Credit	6,572.6	0.0	1,693.8	4,878.8
Gross Sales	9,817.5	4.4	9,813.1	0.0
Materiel Inventory Adjustments				
CAPITALIZATIONS + OR (-)	255.6	27.1	193.0	
RETURNS TO SUPPLIERS (-)	(1,688.7)	0.0		(1,688.7)
TRANSFERS TO PROP. DISP.(-)	(2,923.2)	0.0		(2,923.2)
ISSUES/RECEIPTS WITHOUT REIMBURSEMENT + or (-)	(117.8)	(69.2)	(0.8)	(47.8)
OTHER (list)	(1,478.1)	(23.6)	(609.9)	(844.6)
TOTAL ADJUSTMENTS	(5,952.3)		(417.7)	(5,468.9)
Materiel Inventory EOP ECONOMIC RETENTION (memo) NUMERIC RETENTION (memo) POTENTIAL EXCESS (memo)	11,317.0	1,773.0	2,613.9	6,930.1 1,620.1 655.8 39.5
Materiel Inventory on Order EOP (memo)	2,218.0	116.1	2,101.9	0.0

DEFENSE BUSINESS OPERATIONS FUND - ARMY MATERIAL INVENTORY DATA (Dollars in Millions) FISCAL YEAR 1996

	Total	Mobilization_	Peace Operating	
Materiel Inventory BOP	11,317.0	1,773.0	2,613.9	6,930.1
BOP Reclassification Changes	(0.0)	33.6	1,770.9	(1,804.5)
Price Changes	389.3	44.0	177.5	167.8
Receipts from Commercial Sources	6,244.6	70.6	6,173.0	1.0
Negotiated Purchase from Customers and Returns without Credit	7,053.9	0.0	1,742.7	5,311.2
Gross Sales	10,129.4	2.0	10,127.4	0.0
Materiel Inventory Adjustments				
CAPITALIZATIONS + OR (-)	(305.4)			
RETURNS TO SUPPLIERS (-)	(1,492.7)			(1,492.7)
TRANSFERS TO PROP. DISP.(-)	(2,057.7)			(2,057.3)
<pre>ISSUES/RECEIPTS WITHOUT REIMBURSEMENT + or (-)</pre>	(2.4)	(8.8)	(5.4)	11.8
OTHER (list)	(27.3)	(8.9)	(27.0)	8.6
TOTAL ADJUSTMENTS	(3,885.5)		(409.0)	
Materiel Inventory EOP ECONOMIC RETENTION (memo) POLICY RETENTION (memo) POTENTIAL EXCESS (memo)	10,989.9	1,830.5	1,941.6	7,217.8 5,052.5 2,021.0 144.4
Materiel Inventory on Order EOP (memo)	2,128.8	87.3	2,041.5	0.0
EOP (memo)	4,140.0	01.3	2,041.5	0.0

DEFENSE BUSINESS OPERATIONS FUND - ARMY MATERIAL INVENTORY DATA (Dollars in Millions) FISCAL YEAR 1997

	<u>Total</u>	Mobilization _	Peace Operating	
Materiel Inventory BOP	10,989.9	1,830.5	1,941.6	7,217.8
BOP Reclassification Changes	0.0	55.0	1,674.5	(1,729.5)
Price Changes	(788.7)	(78.6)	(358.5)	(351.6)
Receipts from Commercial Sources	5,945.2	61.6	5,883.6	0.0
Negotiated Purchase from Customers and Returns without Credit	6,646.2	0.0	1,520.5	5,125.7
Gross Sales	8,569.6	2.0	8,567.6	0.0
Materiel Inventory Adjustments CAPITALIZATIONS + OR (-) RETURNS TO SUPPLIERS (-) TRANSFERS TO PROP. DISP.(-) ISSUES/RECEIPTS WITHOUT REIMBURSEMENT + or (-) OTHER (list) TOTAL ADJUSTMENTS Materiel Inventory EOP ECONOMIC RETENTION (memo) POLICY RETENTION (memo)	(30.7) (1,603.1) (1,751.3) 4.0 (43.4) (3,424.5)	0.0 0.0 (3.2) (7.5) (28.8)	(138.5) 0.0 0.0 (43.1) (190.6)	(1,751.3) 7.2 7.2 (3,205.1) 7,057.3 4,940.1 1,976.0
POTENTIAL EXCESS (memo) Materiel Inventory on Order EOP (memo)	2,647.0	0.0	2,647.0	0.0

OPERATING BUDGET

SUPPLY MANAGEMENT

FUNCTIONAL DESCRIPTION

The Supply Management, Army (SMA) Business Area consists of a wholesale division and separate retail divisions for Army major commands. One other retail division is organized by function to support military requirements in the National Capital Region (Washington, DC). The wholesale subdivisions are organized by commodity with major subordinate commands managing assigned Army items and the Defense Logistics Agency (DLA)-managed prepositioned war reserves under Army control. Supply Management activities consist of the following:

Retail Supply Operations

Retail Divisions

FORSCOM: Headquarters, U.S Army Forces Command

USAREUR: Headquarters, U.S. Army Europe

TRADOC: Headquarters, U.S. Army Training and Doctrine

Command

USARPAC: Headquarters, U.S. Army Pacific Command

USAEIGHT: Headquarters, Eighth U.S. Army Korea

USARSO: Headquarters, U.S. Army Southern Command

AMC-ID: Headquarters, U.S. Army Materiel Command-

Installation Division

Type of Materiel Managed:

Department of the Army (DA), DLA, and General Services Administration (GSA) items: items include repair parts; clothing; subsistence; medical supplies; industrial supplies; bulk and packaged Petroleum, Oil, and Lubricants (POL); general supplies; and ground support supplies.

SUPPLY MANAGEMENT

In addition, DSS-W: Defense Supply Service -Washington, DC manages GSA items, administrative office supplies and equipment.

Wholesale Supply Operations

Wholesale

Type of Materiel Managed Subdivisions

Aircraft and ground support items ATCOM

U.S. Army Aviation and Troop Command

Communication and electronics items CECOM

U.S. Army Communications-Electronics Command

MICOM Missile systems items

U.S. Army Missile Command

Combat, automotive, and TACOM

construction items U.S. Army Tank and

Automotive Command

and Logistics Activity

Weapons, special weapons, chemical ACALA

and fire control items

U.S. Army Armament and Chemical Acquisition

DLA/GSA items: repair parts, AMC-MOB

clothing, subsistence, medical Headquarters, U.S.

supplies, industrial supplies, Army Materiel Command

ground forces supplies

BUDGET HIGHLIGHTS

Supply Management, Army (SMA) gross sales will decline in FY 97 based on Army downsizing, the continuation of the Consumable Item Transfer (CIT) to the Defense Logistics Agency, and price reductions.

SUPPLY MANAGEMENT

	FY 1995	FY 1996	FY 1997
Gross Sales	9,817.5	10,129.4	8,569.6
Obligations for Materiel(includes	5,762.8	5,953.3	5,293.5
Depot-Level Repair of DLRs)			
Credit Returns	2,612.4	2,665.0	2,402.2

Prices for Army-managed items will be adjusted downward an average of 6.0 percent in FY 1997. The price decrease results from utilization of projected cash balances that are beyond the Army DBOF business area requirements. The ongoing efforts to reduce inventory levels, primarily leadtimes, have resulted in replenishment and repair actions which are less than sales.

Operating Results	FY 1995	FY 1996	FY 1997
Net Operating Results	56.7	6.5	(13.0)
Accumulated Operating Results	6.5	13.0	0.0

WORKLOAD AND ECONOMIC ASSUMPTIONS

The following presents general workload data and economic assumptions for the Wholesale Division. (\$ in Millions)

	FY 1995	FY 1996	FY 1997
SMA Line Items Managed	189,834	174,299	170,256
SMA Requisitions Received	\$4,381.6	\$4,205.6	\$4,024.9
- Receipts	390,646	327,802	376,478
- Issues	1,487,458	1,248,168	1,433,513
Contracts Executed	10,778	10,899	11,489
SMA Customer Rate Change	8.0%	5.4%	(6.0%)
SMA Purchase Inflation	1.7%	2.0%	2.2%
UNIT COST GOAL			
Wholesale	\$.81	\$.81	\$.93
Retail	\$1.00	\$.98	\$1.00
PERSONNEL			
Civilian End Strength	4,152	4,100	3,846
Civilian Workyears	4,530	4,287	3,974
Military End Strength	12	22	15
Military Workyears	52	24	18
INVENTORY	\$11,317.0	\$10,989.9	\$10,798.5

SUPPLY MANAGEMENT

Downsizing of the Army, the Total Army Inventory Management program, and our efforts to reduce leadtimes results in lower inventory levels required to support training and readiness.

SUPPLY MANAGEMENT STOCK AVAILABILITY

Stock Availability measures the percentage of Supply Management, Army (SMA) requisitions satisfied upon initial processing in the wholesale supply system. The SMA target for Stock Availability is 85 percent demand satisfaction. FY 1996 and FY 1997 budget requirements are based on the 85 percent target. Data provided reflects FY 1995 and first quarter FY 1996 actual performance.

Quarter	Percent
1st FY 1995	88.1
2d FY 1995	87.2
3d FY 1995	87.1
4th FY 1995	86.5
1st FY 1996	85.5

MAJOR PROGRAMMATIC ADJUSTMENTS

Significant programmatic adjustments in the FY 1997 submission include: reductions of supply systems costs resulting from the Total Army Inventory Management program; reductions in workload driven principally by force structure changes; reductions in the need to buy pipeline replacements based on our efforts to decrease leadtimes; changes in the consumptive behavior of units as a result of the impacts of stock funding of depot-level reparables and re-equipping efforts which both result in lower demand for stock fundmanaged materiel.

DEFENSE BUSINESS OPERATIONS FUND - ARMY SUPPLY MANAGEMENT, ARMY REVENUE AND EXPENSES (Dollars in Millions)

	FY 1995	FY 1996	FY 1997
Revenue:	9,817.5	10,129.4	8,569.6
Gross Sales	9,817.5		8,569.6
Operations .	9,758.2		
Capital Surcharge	46.4	51.2	52.6
Depreciation	12.9	13.1	12.0
Expenses:			
Cost of Material Sold from Inventory	6,410.9		5,666.6
Negotiated Purchases from Customers	2,612.4	•	
Transportation	47.3	44.7	45.4
Salaries and Wages:	247.9	237.2	226.4
Military Personnel	2.3	1.3	1.1
Civilian Personnel	245.6	235.9	225.3
Materials, Supplies & Parts Used in Operations	8.0	8.0	8.0
Facility Repair & Maintenance	2.4	2.7	4.8
Depreciation/Amortization	12.9	13.1	12.0
Contracted Engineering Services	1.1	0.9	0.9
Lease Costs	8.7	7.2	8.8
Purchased Utilities	3.0	4.0	4.0
Purchased Communications	0.2	0.3	0.3
Equipment Maintenance by Contract	4.7	7.9	8.5
Fuel	0.0	0.0	0.0
Other Expenses	354.9	314.0	331.4
Total Expenses	9,714.4	9,986.4	8,719.3
Change in WIP	0.0	0.0	0.0
Cost of Goods Sold:	9,714.4	9,986.4	8,719.3
Operating Result:	103.1	143.0	(149.7)
Less Capital Surcharge Reservation	46.4	51.2	52.6
Prior Year and Other Adjustments	0.0	0.0	0.0
Other Changes Affecting NOR/AOR	0.0	85.3	(189.3)
Net Operating Result	56.7	6.5	(13.0)
Prior Year AOR (adjusted)	(50.2)	6.5	13.0
Accumulated Operating Results	6.5	13.0	(0.0)

DEFENSE BUSINESS OPERATIONS FUND - ARMY SUPPLY MANAGEMENT SOURCE OF REVENUE (NEW ORDERS)

(Dollars in Millions)

	FY 1995	FY 1996	FY 1997				
1. New Orders							
a. Orders from DoD Components:							
Army	5,654.1	5,740.0	4,975.6				
Navy	97.1	77.1	66.3				
Air Force	187.7	156.2	131.6				
Marine Corps	92.3	86.3	69.9				
DLA	86.9	91.8	78.3				
Other DOD	577.9	598.4	568.7				
b. Orders from other Fund Business Areas:	2,911.8	2,749.9	2,367.3				
c. Total DoD	9,607.8	9,499.6	8,257.8				
d. Other Orders:	377.7	429.9	376.0				
Other Federal Agencies	44.1	42.0	36.1				
Foreign Military Sales	315.5	363.3	320.6				
Non-Federal Agencies	0.0	0.0	0.0				
All Other	18.0	24.5	19.3				
2. Carry-in Orders	0.0	(0.0)	0.0				
3. Total Gross Orders	9,985.5	9,929.5	8,633.8				
4. Change to Backlog	168.0	(199.9)	64.2				
5. Total Gross Sales	9,817.5	10,129.4	8,569.6				

DEFENSE BUSINESS OPERATIONS FUND SUPPLY MANAGEMENT, ARMY CHANGES IN COSTS OF OPERATIONS (DOLLARS IN MILLIONS)

FY 1995 Actual Cost	9,714.4
FY 1996 Estimate in President's Budget	9,372.4
Program Changes: Sales Increase	614.0
FY 1996 Current Estimate	9,986.4
Pricing Adjustments: Civilian Personnel-Pay Inflation less than expected Price reduction Cash Adjustment (FY 96) DFAS Distribution Depot AOR recovery	(0.3) (213.2) (229.4) (70.0) (8.0) 24.8 (35.0)
Program Changes: Civilian Personnel Sales Decrease FY 95 year end surge Operation Joint Endeavor	(4.8) (447.2) (100.0) (184.0)
FY 1997 Estimate	8,719.3

SUPPLY MANAGEMENT, ARMY MATERIEL INVENTORY DATA (Dollars in Millions) FISCAL YEAR 1995

			Peacet	
	Total	Mobilization	Operating	Other
Materiel Inventory BOP	13,336.0	1,808.5	5,967.8	5,559.7
BOP Reclassification Changes	0.0	(92.8)	(1,383.5)	1,476.3
Price Changes	1,051.5	53.8	537.7	460.0
Receipts from Commercial Sources	6,126.7	73.6	6,028.9	24.2
Negotiated Purchase from Customers and Returns without Credit	6,572.6	0.0	1,693.8	4,878.8
Gross Sales	9,817.5	4.4	9,813.1	0.0
Materiel Inventory Adjustments			,	
CAPITALIZATIONS + OR (-)	255.6	27.1	193.0	35.5
RETURNS TO SUPPLIERS (-)	(1,688.7)	0.0	0.0	(1,688.7)
TRANSFERS TO PROP. DISP.(-)	(2,923.3)	(0.0)	(0.0)	(2,923.2)
ISSUES/RECEIPTS WITHOUT REIMBURSEMENT + or (-)	(117.8)	(69.2)	(0.8)	(47.8)
OTHER (list)	(1,478.1)	(23.6)	(609.9)	(844.6)
TOTAL ADJUSTMENTS	(5,952.3)		(417.7)	(5,468.9)
Materiel Inventory EOP ECONOMIC RETENTION (memo) NUMERIC RETENTION (memo) POTENTIAL EXCESS (memo)	11,317.0	1,773.0	2,613.9	6,930.1 1,620.1 655.8 39.5
Materiel Inventory on Order EOP (memo)	2,218.0	116.1	2,101.9	0.0

SUPPLY MANAGEMENT, ARMY MATERIAL INVENTORY DATA (Dollars in Millions) FISCAL YEAR 1996

	Total	Mobilization_	Peace Operating	
Materiel Inventory BOP	11,317.0	1,773.0	2,613.9	6,930.1
BOP Reclassification Changes	(0.0)	33.6	1,770.9	(1,804.5)
Price Changes	389.3	44.0	177.5	167.8
Receipts from Commercial Sources	6,244.6	70.6	6,173.0	1.0
Negotiated Purchase from Customers and Returns without Credit	7,053.9	0.0	1,742.7	5,311.2
Gross Sales	10,129.4	2.0	10,127.4	0.0
Materiel Inventory Adjustments CAPITALIZATIONS + OR (-) RETURNS TO SUPPLIERS (-) TRANSFERS TO PROP. DISP.(-) ISSUES/RECEIPTS WITHOUT REIMBURSEMENT + or (-) OTHER (list) TOTAL ADJUSTMENTS Materiel Inventory EOP ECONOMIC RETENTION (memo) POLICY RETENTION (memo) POTENTIAL EXCESS (memo)	(305.4) (1,492.7) (2,057.7) (2.4) (27.3) (3,885.5) 10,989.9	0.0 (0.4) (8.8) (8.9) (88.7)	0.0 0.0 (5.4)	(1,492.7) (2,057.3) 11.8 8.6 (3,387.8)
Materiel Inventory on Order EOP (memo)	2,128.8	87.3	2,041.5	0.0

SUPPLY MANAGEMENT, ARMY MATERIAL INVENTORY DATA (Dollars in Millions) FISCAL YEAR 1997

	Total	Mobilization _	Peace Operating	
Materiel Inventory BOP	10,989.9	1,830.5	1,941.6	7,217.8
BOP Reclassification Changes	0.0	55.0	1,674.5	(1,729.5)
Price Changes	(788.7)	(78.6)	(358.5)	(351.6)
Receipts from Commercial Sources	5,945.2	61.6	5,883.6	0.0
Negotiated Purchase from Customers and Returns without Credit	6,646.2	0.0	1,520.5	5,125.7
Gross Sales	8,569.6	2.0	8,567.6	0.0
Materiel Inventory Adjustments				
CAPITALIZATIONS + OR (-)	(30.7)			(3.6)
RETURNS TO SUPPLIERS (-)	(1,603.1)			
TRANSFERS TO PROP. DISP.(-)	(1,751.3)	0.0		(1,751.3)
ISSUES/RECEIPTS WITHOUT REIMBURSEMENT + or (-)	4.0	(3.2)	0.0	7.2
OTHER (list)	(43.4)	(7.5)	(43.1)	7.2
TOTAL ADJUSTMENTS	(3,424.5)	(28.8)	(190.6)	(3,205.1)
Materiel Inventory EOP	10,798.5	1,837.7	1,903.5	7,057.3 4,940.1
ECONOMIC RETENTION (memo)				1,976.0
POLICY RETENTION (memo) POTENTIAL EXCESS (memo)				141.1
Materiel Inventory on Order				
EOP (memo)	2,647.0	0.0	2,647.0	0.0

SUPPLY MANAGEMENT, ARMY FUEL DATA (Dollars in Millions)

PROCURED FROM DFSC

PROCURED BY SERVICE

PRODUCT	BARRELS (MILLIONS)	COST PER BARREL (\$)	EXTENDED PRICE (\$ MIL)	BARRELS (MILLIONS)	COST PER BARREL (\$)	EXTENDED PRICE (\$ MIL)	STABILIZED PRICE
FY 1995							
AVGAS	0.000	88.62	0.0	0.001	88.62	0.1	
MOGAS (L)	0.007	35.28	0.2	0.000	35.28	0.0	
MOGAS (U)	0.458	28.56	13.1	0.107	28.56	3.1	
JP-4	0.695	29.82	20.7	0.088	29.82	2.6	
JP-5	0.233	30.66	7.1	0.000	30.66	0.0	
DISTILLATES	0.386	28.56	11.0	0.426	28.56	12.2	
RESIDUALS	0.141	17.64	2.5	0.247	17.64	4.4	
GASOHOL	0.001	28.14	0.0	0.000	28.14	0.0	
JP-8	0.502	29.82	15.0	0.078	29.82	2.3	
01 0							
TOTAL	2.423	28.77	69.7	0.947	26.00	24.6	0.0
FY 1996	A .			0 001	04 00	0.1	
AVGAS	0.000	94.92	0.0	0.001	94.92 37.80	0.0	
MOGAS (L)	0.000	37.80	0.0	0.000	30.66	3.3	
MOGAS (U)	0.503	30.66	15.4	0.107	31.92	2.8	4
JP-4	0.037	31.92	1.2 5.4	0.088 0.000	32.76	0.0	
JP-5	0.165	32.76	13.6	0.423	30.66	13.0	
DISTILLATES	0.444	30.66	2.6	0.250	18.48	4.6	
RESIDUALS	0.141	18.48	0.0	0.000	30.24	0.0	
GASOHOL	0.001	30.24		0.071	31.92	2.3	
JP-8	1.172	31.92	37.4	0.071	31.72	2.5	
TOTAL	2.463	30.72	75.7	0.940	27.70	26.0	0.0
FY 1997							
AVGAS	0.000	99.12	0.0	0.001	99.12	0.1	
MOGAS (L)	0.007	38.22	0.3	0.000	38.22	0.0	
MOGAS (U)	0.463	31.08	14.4	0.107	31.08	3.3	
JP-4	0.035	32.34	1.1	0.054	32.34	1.7	
JP-5	0.085	33.18	2.8	0.000	33.18	0.0	
DISTILLATES	0.475	31.08	14.8	0.409	31.08	12.7	
RESIDUALS	0.141	18.90	2.7	0.149	18.90	2.8	
GASOHOL	0.001	30.66	0.0	0.000	30.66	0.0	
JP-8	1.198	32.34	38.7	0.069	32.34	2.2	
TOTAL	2.405	31.11	74.8	0.789	29.06	22.9	0.0

SUPPLY MANAGEMENT, ARMY SUMMARY BY DIVISION (Dollars in Millions)

	NET		OBLIGA'	TION TARGE	TS
	CUSTOMER	NET			TARGET
DIVISION	ORDERS	SALES	OPERATING	MOB	TOTAL
RETAIL					
FORSCOM					
FY 1995		1,611.3			1,580.4
FY 1996	1,673.5	•	1,740.8		1,740.8
FY 1997	1,309.0	1,340.1	1,345.4		1,345.4
USAREUR					
FY 1995	573.1	548.4	568.3		568.3
FY 1996	752.0	768.6			773.2
FY 1997	551.7	568.1	550.5		550.5
TRADOC					
FY 1995	949.3	961.7	•	ē	1,006.4
FY 1996	962.6	991.6	980.7		980.7
FY 1997	832.8	828.6	856.7		856.7
USAEIGHT					
FY 1995	278.9	293.1	293.3		293.3
FY 1996	327.4	323.2	325.2		325.2
FY 1997	280.2	278.7	285.7		285.7
USARPAC					
FY 1995	247.4	239.0	244.2		244.2
FY 1996	224.7	236.0	229.2		229.2
FY 1997	191.1	193.5	193.7		193.7
USARSO					
FY 1995	64.9	66.4	64.9		64.9
FY 1996	53.4	54.3	53.3		53.3
FY 1997	46.4	46.2	46.5		46.5
AMC-ID					
FY 1995	306.2	330.7	321.3		321.3
FY 1996	326.2	342.7	337.0		337.0
FY 1997	361.7	369.9	365.3		365.3
DSS-W					
FY 1995	24.6	17.9	23.2	•	23.2
FY 1996	26.3	25.3	24.0		24.0
FY 1997	37.1	35.6	34.3		34.3

SUMMARY BY DIVISION (CONTINUED)

	NET		OBLIGAT	ION TARGE	
DIVISION	CUSTOMER	NET		MOB	TARGET TOTAL
	ORDERS	SALES	OPERATING	MOD	IOIAL
WHOLESALE					
CONSUMABLES					
ACALA					
FY 1995	200.5	169.9	89.4		89.4
FY 1996	174.8	175.1	85.9		85.9
FY 1997	155.2	139.6	88.7		88.7
ATCOM					
FY 1995	260.7	221.0	135.3		135.3
FY 1996	166.2	182.4	118.5		118.5
FY 1997	97.4	109.0	105.4		105.4
CECOM					
FY 1995	225.6	219.0	130.0		130.0
FY 1996	208.5	198.5	82.2		82.2
FY 1997	166.6	156.3	83.8		83.8
MICOM					
FY 1995	29.5	30.9	24.9		24.9
FY 1996	31.3	30.6	23.9		23.9
FY 1997	32.8	34.6	31.3		31.3
TACOM					
FY 1995	422.8	388.8	167.2		167.2
FY 1996	325.9	324.4	177.7		177.7
FY 1997	295.6	270.3	218.2		218.2
REPARABLES					
ACALA					
FY 1995	160.9	178.2	66.9		66.9
FY 1996	159.4	162.5	73.8		73.8
FY 1997	146.4	138.5	71.6		71.6
ATCOM					400 5
FY 1995	912.4	843.3	408.5		408.5
FY 1996	767.1	759.2	375.1		375.1
FY 1997	706.6	698.9	382.7		382.7
CECOM					200 6
FY 1995	336.7	339.5	309.6		309.6
FY 1996	348.8	343.8	207.1		207.1
FY 1997	290.0	281.4	200.7		200.7

SUMMARY BY DIVISION (CONTINUED)

	NET		OBLIGATION	TARGETS	
DIVISION	CUSTOMER	NET			TARGET
	ORDERS	SALES	OPERATING	MOB	TOTAL
MICOM					
FY 1995	324.2	282.8	169.1		169.1
FY 1996	305.6	300.8	173.1		173.1
FY 1997	282.5	273.6	211.8		211.8
TACOM					
FY 1995	406.3	412.5	150.3		150.3
FY 1996	399.6	398.9	172.6		172.6
FY 1997	420.5	376.5	221.2		221.2
AMC-MOB					
FY 1995	6.2	6.6	9.6		9.6
FY 1996	7.2	7.2	7.1		7.1
FY 1997	7.3	7.3	7.3		7.3
COST OF OPS					
FY 1995			678.2		678.2
FY 1996			624.9		624.9
FY 1997			619.7		619.7
CAPITAL					
FY 1995			19.0		19.0
FY 1996			15.5		15.5
FY 1997			26.9		26.9
TOTAL					
FY 1995	7,328.7	7,161.0	6,460.1	0.0	6,460.1
FY 1996			6,600.8	0.0	•
FY 1997		6,146.7		0.0	5,947.4
	•	•	•		•

SUPPLY MANAGEMENT, ARMY OPERATING REQUIREMENTS BY WEAPON SYSTEM/CATEGORY (Dollars in Millions)

	FY 1995	FY 1996	FY 1997
WEAPON SYSTEM/CATEGORY			
CHEMICAL DEFENSE EQUIPMENT OTHER ARMAMENT, MUNITIONS	34.0	30.1	24.1
AND CHEMICALS	39 0	29.0	36.0
	123.1		
AH-64	205.4	153.9	150.7
UH-60			44.3
OH-58D		39.8	
CH-47D	12.1	25.1	23.6
T701C ENGINES AIR DELIVERY/AVIATION/TROOP EQUIPMENT			
			19.1
MSE	31.7	22.4	20.3
NIGHT VISION EQUIPMENT	34.9		39.1
BATTERIES	34.2	37.3	33.1
OTHER COMMUNICATIONS/	315 0	157.3	171.2
ELECTRONICS	26.4	19.7	26.1
MLRS	79.0	90.8	96.1
PATRIOT OTHER MISSILES SYSTEMS		36.3	
M1 SERIES TANK	122.4	150.0	
MI SERIES TANK M88 RECOVERY VEHICLE	24.0	26.8	33.8
M109 HOWITZER	27.7		45.2
M109 HOWITZER M198 HOWITZER	7.0	4.3	
M113 FOV	23.9		29.5
BRADLEY FIGHTING VEHICLE	68.7	61.2	77.4
HMMWV	22.4	22.4	27.3
TIRES	34.2		44.0
OTHER TANK & AUTOMOTIVE	90.0	94.7	
TOTAL	1,651.2	1,489.9	1,615.4

SUPPLY MANAGEMENT, ARMY WHOLESALE ONLY CUSTOMER PRICE CHANGE

			FY 1995	FY 1996	FY 1997
1.	Gro	ss Sales at Cost	3,337.0	3,169.6	3,031.8
2.	Les	s Materiel Inflation Adjustment	56.7	98.3	65.3
3.	Rev	ised Gross Sales at Cost	3,280.3	3,071.3	2,966.5
4.	Sur	charge (dollars)	794.2	839.2	506.9
5.	Cha	nge to Customers			
	a.	Previous Years Surcharge (rate)	17.6%	23.8%	26.5%
	b.	This year's Surcharge divided by line 3 above (\$)	25.9%	30.5%	18.9%
	c.	Percent change to customer	8.0%	5.4%	-6.0%

ARMY DEPOT MAINTENANCE - OTHER

FUNCTIONAL DESCRIPTION

The Depot Maintenance - Other business encompasses depot maintenance; ammunition storage, maintenance and demilitarization; base support host; and some residual depot supply operations performed by depots operating under the Industrial Operations Command (IOC). Depot maintenance includes the overhaul, rebuild, conversion, renovation, modification, repair, inspection and test, manufacture, fabrication and reclamation of materiel as well as maintenance support services.

BUSINESS AREA COMPOSITION

Anniston Army Depot
Bluegrass Army Depot
Corpus Christi Army Depot
Letterkenny Army Depot
Red River Army Depot
Tobyhanna Army Depot
Tooele Army Depot
Sacramento Army Depot Activity
Seneca Army Depot Activity
Sierra Army Depot Activity
Pueblo Army Depot Activity
Savanna Army Depot Activity
Umatilla Army Depot Activity

Anniston, Al
Richmond, KY
Corpus Christi, TX
Chambersburg, PA
Texarkana, TX
Tobyhanna, PA
Tooele, UT
Sacramento, CA
Romulus, NY
Herlong, CA
Pueblo, CO
Savanna, IL
Hermiston, OR

Earlier Base Realignment and Closure (BRAC) initiatives closed Sacramento Army Depot (end of FY 1995), ended the maintenance mission at Tooele Army Depot, and continued realignment/consolidation of the tactical missile mission to Letterkenny Army Depot and the rotary wing workload from the Naval Air Station, Pensacola to Corpus Christi Army Depot. BRAC 95 added the closure of Savanna and Seneca and the realignment of Red River, Letterkenny and Sierra.

ARMY DEPOT MAINTENANCE - OTHER

BUDGET HIGHLIGHTS

The IOC will consolidate management of the Army DBOF Depot Maintenance - Other (formerly managed by Depot Systems Command (DESCOM)) and elements of the former Army Armament, Munitions and Chemical Command (AMCCOM) including DBOF Depot Maintenance - Ordnance. The IOC will command all Army depots, depot activities, ammunition plants, three arsenals, and other Army industrial activities. This consolidation will result in savings in management headquarters costs to the Depot Maintenance - Other business area.

The chemical demilitarization and storage mission transferred to the Chemical and Biological Defense Command (CBDCOM) effective fiscal year 1996. The CBDCOM is a tenant on the five affected depots/depot activities and will reimburse the Army Depot Maintenance - Other business area for base support costs.

Personnel:

	FY 1995	FY 1996	FY 1997
Civilian End Strength	16,127	15,736	14,941
Civilian Work Years (Regular)	17,429	15,900	
Military End Strength	421	234	
Military Work Years	385	221	112

Civilian manpower strengths and workyears, excluding overtime, continue to decrease due to overall downsizing, transfer of the chemical mission to CBDCOM and BRAC-related reductions at Tooele and Sacramento Army Depots.

Elimination of the special weapons mission at Sierra Army Depot and the transfer of military to the CBDCOM reduces the military end strengths.

ARMY DEPOT MAINTENANCE - OTHER

Costs, Operating Results (OR), and Rates:

	FY 1995	FY 1996	FY 1997
Cost of Goods & Services Sold	1,574.7	1,643.0	1,596.3
Net Operating Results	109.5	(26.1)	47.6
Accumulated Operating Results	(21.5)	(47.6)	0
Customer Revenue Rate Per DLH	\$109.51	\$84.24	\$90.07
% Rate Change from Prior Year	15.6	(23.1)	6.9
Unit Costs (\$/DLH)	\$82.12	\$89.12	\$91.65
DLH (000)	19,175.0	18,435.1	17,417.0

<u>Costs.</u> Total costs decline during the budget years as a result of mission transfers, elimination of the special weapons mission and BRAC-related workload reductions. The rates in FY 1997 are set to achieve a zero Accumulated Operating Result.

Unit Costs increase by 11.6% between FY 1995 and FY 1997 because of spreading fixed overhead costs over a decreasing direct labor hour base.

The customer revenue rate per DLH is reflective of the attempt to bring the budget year's accumulated operating results to zero. The rate changes are made up of the following factors:

	FY 1997
Inflation and pricing changes	2.4%
Succeeding year inflation for carryover	14.0%
AOR = "0"	(3.0%)
Depreciation	1.87%
Workload mix	4.1%
Unutilized plant capacity policy change	3.1%
Productivity initiative	(1.7%)
Military Personnel at Sierra	(.2%)

ARMY DEPOT MAINTENANCE - OTHER

<u>Performance Indicators.</u> Performance effectiveness indicators for this business area are labor hour costs, net operating results and schedule conformance. The goals for these are to execute labor hour costs at or below budgeted levels, to achieve or exceed budgeted operating results, and to complete at least 95 percent of items worked on schedule.

Economies and Efficiencies: Productivity savings are primarily a function of the merger of DESCOM and AMCCOM to form the IOC, capital investment, and value engineering and methods and standards.

Capital Program Authority: The capital budget for Depot Maintenance - Other declined sharply in FY 1995 due to a Congressional cap on DBOF authority. The FY 1996 program increases to accommodate workload changes and ADPE upgrades. The FY 1997 program includes a logistics initiative to reduce annual operating and support costs of weapons systems. This new category, Reliability, Maintainability and Supportability Modification, is funded at \$24.8 million.

DEFENSE BUSINESS OPERATIONS FUND - ARMY DEPOT MAINTENANCE - OTHER REVENUE AND EXPENSES (Dollars in Millions)

	FY 1995	FY 1996	FY 1997
Revenue:	1,775.0	1,633.4	1,660.9
Gross Sales	1,775.0	1,633.4	1,660.9
Operations	1,688.6	1,574.3	1,602.2
Capital Surcharge	47.3	16.5	17.0
Depreciation	39.1	42.6	41.7
Expenses:			
Cost of Material Sold from Inventory			
Negotiated Purchases from Customers			
Transportation	16.0	14.2	14.6
Salaries and Wages:	794.9	777.7	822.8
Military Personnel	14.5	8.6	5.3
Civilian Personnel	780.3	769.2	817.5
Materials, Supplies & Parts Used in Operations	454.6	490.3	379.3
Facility Repair & Maintenance	17.6	34.1	35.1
Depreciation/Amortization	39.1	42.6	41.7
Contracted Engineering Services	0.1	0.9	0.9
Lease Costs	10.5	9.4	8.9
Purchased Utilities	18.5	18.6	19.2
Purchased Communications	2.0	1.0	1.0
Equipment Maintenance by Contract	10.9	14.0	14.3
Fuel	11.4	11.7	11.1
Other Expenses	243.7	233.1	252.8
Cost of Goods Produced:	1,619.3	1,647.6	1,601.7
Change in WIP	44.6	4.6	5.4
Cost of Goods Sold:	1,574.7	1,643.0	1,596.3
Operating Result:	200.3	(9.6)	64.6
Less Capital Surcharge Reservation	47.3	16.5	17.0
Extraordinary Items:	43.5		
Prior Year and Other Adjustments	43.5		
Net Operating Result:	109.5	(26.1)	47.6
Prior Year AOR	(131.0)	(21.5)	(47.6)
Accumulated Operating Results	(21.5)	(47.6)	0.0

DEFENSE BUSINESS OPERATIONS FUND - ARMY ARMY DEPOT MAINTENANCE - OTHER SOURCE OF REVENUE (NEW ORDERS) (Dollars in Millions)

		FY 1995	FY 1996	FY 1997
1.	New Orders			
	a. Orders from DoD Components:			
	Army	1,083.0	904.0	769.1
	Navy	80.1	75.7	62.6
	Air Force	40.1	33.8	32.3
	Marine Corps	1.5	1.8	1.8
	DLA	35.3	36.9	35.0
	Other DOD	70.1	42.9	66.6
	b. Orders from other Fund Business Areas:	358.0	277.9	359.8
	c. Total DoD	1,668.2	1,373.0	1,327.3
	d. Other Orders:	71.9	94.4	103.6
	Other Federal Agencies	4.4		
	Foreign Military Sales	57.0	80.5	89.5
	Non-Federal Agencies	10.5	6.0	5.7
	All Other	0.0	0.0	0.0
2.	Carry-in Orders	734.3	699.4	533.4
з.	Total Gross Orders	2,474.4	2,166.8	1,964.3
4.	Change to Backlog	699.4	533.4	303.4
5.	Total Gross Sales	1,775.0	1,633.4	1,660.9

DEFENSE BUSINESS OPERATIONS FUND ARMY DEPOT MAINTENANCE, OTHER CHANGES IN COSTS OF OPERATIONS (DOLLARS IN MILLIONS)

FY 1995 Actual Cost		1,619.3
FY 1996 Estimate in President's Budget		1,668.9
Estimated Impact in FY 1996 of Actual FY 1995 Experience Depreciation Contracted Engineering Services Purchases Utilities Facility Repair Change		15.9 (27.3) (3.2) (3.7)
Pricing Adjustments: General Purchase Inflation		(3.0)
FY 1996 Current Estimate		1,647.6
Pricing Adjustments: Annualization of Prior Year Pay Raises FY 1996 Pay Raise: Civilian Personnel Military Personnel Fund Price Changes General Purchase Inflation	17.1 0.0	3.8 17.1 11.3 6.9
Productivity Initiatives and Other Efficiences.		(16.7)
Program Changes: Consolidation of IOC HQ Military Personnel, MPs at Sierra Army Depot Elimination of Maintenance Mission at Tooele Workload Changes		(68.4) (2.3) (2.3) (6.5) (57.3)
FY 1997 Estimate		1,601.7

ARMY DEPOT MAINTENANCE - ORDNANCE

FUNCTIONAL DESCRIPTION

The Depot Maintenance--Ordnance manufacturing and ordnance activities are managed by the US Army Industrial Operations Command (IOC). They manufacture, renovate, and demilitarize material for all branches of DoD, as well as provide depot operations, depot maintenance, set assembly, tenant support, and national procurement services for thin and thick walled cannons. They are responsible for logistics support management, including follow-on procurement, production, maintenance, engineering and integrated logistics support management. They also furnish engineering services in support of production, industrial management, value engineering, configuration management, international logistics, tools and equipment engineering, product assurance, transportation and traffic management for assigned systems and materiel.

BUSINESS AREA COMPOSITION

The business area is composed of five installations:

Pine Bluff Arsenal
Rock Island Arsenal
Watervliet Arsenal
Crane Army Ammunition Activity
McAlester Army Ammunition Plant

Pine Bluff, Arkansas Rock Island, Illinois Watervliet, New York Crane, Indiana McAlester, Oklahoma

The IOC will consolidate management of the Army DBOF Depot Maintenance--Other (formerly managed by Depot Systems Command (DESCOM)), and elements of the former Army Armament, Munitions and Chemical Command (AMCCOM), including DBOF Depot Maintenance--Ordnance. The IOC will command all Army depots, depot activities, ammunition plants, three arsenals, and other Army industrial activities. This consolidation will result in savings in management headquarters costs to the Depot Maintenance - Ordnance business area.

The budget reflects the depot tiering concept, which separates depots into three tiers according to their strategic importance to the logistics power projection of the US Army and other services.

ARMY DEPOT MAINTENANCE - ORDNANCE

Tier I sites serve as the active core of the ammunition storage and distribution system, storing, receiving and issuing training ammunition and war reserves to meet critical ammunition needs in the first 30 days of a conflict. Ordnance installations Crane Army Ammunition Activity and McAlester Army Ammunition Plant, as well as Blue Grass and Tooele Army Depots, were selected as Tier I facilities.

Tier II sites, the "Cadre Level", augment Tier I sites, storing war reserve materiel for the second 30 days (and following) of conflict. They also perform maintenance and demilitarization services.

Tier III "Caretaker" sites will store decreasing amounts of excess and obsolete items and perform demilitarization until 2002, by which time the Depot Tiering Concept envisions they will not longer store ammunition.

During fiscal year 1996, the depot maintenance business areas decapitalized the chemical demilitarization and storage mission to the U.S. Army Chemical Biological Defense Command (CBDCOM). The CBDCOM is considered a tenant on the affected installations and will reimburse the business areas for base support costs.

BUDGET HIGHLIGHTS

Personnel:

	FY 1995	FY 1996	FY 1997
Civilian End Strength	5,715		5,462
Civilian Work Years (Regular)	5,550	5,498	5,452
Military End Strength	59	27	24
Military Work Years	50	25	23

The budget displays an overall downward trend in manpower levels consistent with current workload projections. Reduced manpower levels will be achieved through continued VERA/VSIP and hiring freezes. Civilian end strength decreases by 4.4% from 5,715 in FY 1995 to 5,462 by the end of FY 1997. These reductions are a result of efforts to align the work force with decreasing workload.

ARMY DEPOT MAINTENANCE - ORDNANCE

Costs, Operating Results (OR), and Rates:

	FY 1995	FY 1996	FY 1997
Cost of Goods & Services Sold	569.7	541.0	528.1
Net Operating Results	42.8		1.5
Accumulated Operating Results	2.0		-0-
Customer Revenue Rate Per DLH	\$98.73	'	'
% Rate Change from Prior Year	25.8%		4.9%
Unit Costs (\$/DLH)	\$89.00	\$92.04	\$92.23
DLH (000)	6,401.0	5,877.7	5,726.0

Costs. Total costs decline 7.3% from FY 1995 to FY 1997, primarily due to decreasing workload as a result of overall DoD downsizing. Military and civilian strengths decline in FY 1996 due to Toxic Chemical mission transfer to CBDCOM.

<u>Unit Cost</u>. Despite decreasing costs, reduced total direct labor hours (DLHs) cause unit costs to rise from \$89.00/DLH in FY 1995 to \$92.23/DLH in FY 1997--the result of spreading fixed costs over diminished direct labor workload.

Net Operating Results. The DBOF operates on a break-even basis over the long term. The Army sets annual revenue rates to achieve positive or negative results, balancing Accumulated Operating Results to zero in the budget year. The business area's effectiveness is measured by comparing performance to goal, rather than simple calculation of net operating results.

Accumulated Operating Result Recovery. The customer revenue rate per DLH is reflective of the attempt to bring budget years' accumulated operating results to zero. The rate change of 4.9% in FY 1997 is made up of the following factors:

	FY 1997
Inflation and pricing changes	1.9%
Succeeding year inflation for carryover	3.2%
AOR = "0"	(2.1%)
Depreciation	(12.7%)
Workload mix	(20.9%)
Unutilized plant capacity policy change	38.5%
Productivity initiatives	(3.0%)

ARMY DEPOT MAINTENANCE - ORDNANCE

Productivity Initiatives/Cost Reductions. Depot
Maintenance--Ordnance has implemented plans to comply with
directed productivity targets. Initiatives include capital
investment, value engineering, Army Ideas for Excellence,
methods and standards, and other programs. Cost projections
and rates have been adjusted to reflect effects of
productivity initiatives.

<u>Performance Indicators.</u> Schedule conformance is the chief measure of Depot Maintenance--Ordnance performance effectiveness. The goal for FY 1995 through FY 1997 is 90% of production completed on schedule.

Capital Budget. The capital budget for Depot Maintenance-Ordnance totals \$6.6 million for FY 1995, \$21.8 million for FY 1996, and \$17.5 million for FY 1997. Details are provided in the Capital budget section of this submission.

DEFENSE BUSINESS OPERATIONS FUND - ARMY DEPOT MAINTENANCE - ORDNANCE REVENUE AND EXPENSES (Dollars in Millions)

	FY 1995	FY 1996	FY 1997
Revenue:	615.7	537.5	529.6
Gross Sales	615.7	537.5	529.6
Operations	597.5	517.6	510.3
Capital Surcharge	0.0	0.0	0.0
Depreciation	18.2	19.9	19.3
Expenses:			
Cost of Material Sold from Inventory			
Negotiated Purchases from Customers			
Transportation	0.7	0.7	0.7
Salaries and Wages:	283.4	267.2	279.0
Military Personnel	2.5	1.5	1.4
Civilian Personnel	280.8	265.7	277.6
Materials, Supplies & Parts Used in Operations	90.8	86.6	78.5
Facility Repair & Maintenance	36.7	32.9	32.7
Depreciation/Amortization	18.2	19.9	19.3
Contracted Engineering Services		1.9	2.0
Lease Costs	1.3	1.8	1.9
Purchased Utilities	11.9	11.9	12.0
Purchased Communications	0.3	0.6	0.6
Equipment Maintenance by Contract	2.7	2.8	3.1
Fuel	2.1	2.9	2.8
Other Expenses	101.8	99.0	81.0
Cost of Goods Produced:	549.7	528.2	513.6
Change in WIP	(19.9)	(12.8)	(14.5)
Cost of Goods Sold:	569.7	541.0	528.1
Operating Result:	46.1	(3.5)	1.5
	0.0	0.0	0.0
Prior Year and Other Adjustments Other Changes Affecting NOR/AOR	3.2		
Net Operating Result:	42.8	(3.5)	1.5
Prior Year AOR (adjusted)	(40.8)	2.0	(1.5)
Accumulated Operating Results	2.0	(1.5)	0.0

DEFENSE BUSINESS OPERATIONS FUND - ARMY ARMY DEPOT MAINTENANCE - ORDNANCE SOURCE OF REVENUE (NEW ORDERS) (Dollars in Millions)

		FY 1995	FY 1996	FY 1997
1.	New Orders			
	a. Orders from DoD Components:			
	Army	352.7	332.9	204.0
	Navy	12.4	3.2	4.3
	Air Force	3.1	0.0	0.0
	Marine Corps	0.2	8.0	1.3
	DLA	0.2	0.0	0.0
	Other DOD	41.8	71.7	52.1
	b. Orders from other Fund Business Areas:	43.6	38.8	33.1
	c. Total DoD	453.9	454.6	294.8
	d. Other Orders:	6.1	40.2	37.7
	Other Federal Agencies	1.3	0.0	0.7
	Foreign Military Sales	3.9	32.5	26.5
	Non-Federal Agencies	0.8	7.7	
	All Other	0.0	0.0	0.0
2.	Carry-in Orders	632.9	477.2	434.5
3.	Total Gross Orders	1,092.9	972.0	766.9
4.	Change to Backlog	477.2	434.5	237.3
5.	Total Gross Sales	615.7	537.5	529.6

DEFENSE BUSINESS OPERATIONS FUND ARMY DEPOT MAINTENANCE, ORDNANCE CHANGES IN COSTS OF OPERATIONS (DOLLARS IN MILLIONS)

FY 1995 Actual Cost		549.7
FY 1996 Estimate in President's Budget		526.3
Pricing Adjustments General Purchase Inflation		(0.2)
Program Changes Increased Costs at Crane Increased Costs for tenants Changes in Materials and Supplies due to workload mix		1.9 1.4 (1.1)
FY 1996 Current Estimate		528.2
Pricing Adjustments Annualization of Prior Year Pay Raises FY 1997 Pay Raise Civilian Personnel Military Personnel Fund Price Changes General Purchase Inflation Other Price Changes	5.7 0.0	1.5 5.7 (1.3) 4.0
Productivity Initiatives and Other Efficiencies Capital Investment Value Engineering Methods & Standards Employee Suggestions Other	(1.6) (1.4) (0.2) (0.4) (0.2)	(3.9)
Program Changes • Equipment Purchases for Tenants Completion of Egyptian Co-Production Effort Reductions for Materials due to decreased customer orders Depreciation	(10.4) (4.6) (4.9) (0.7)	(20.6)
FY 1998 Estimated Cost		513.6

INFORMATION SERVICES

FUNCTIONAL DESCRIPTION:

The Information Services business area provides for development and operational sustainment of automated information systems. Business functions include requirements definition, system design, development, testing, integration, implementation support, and documentation services in support of Department of Defense, Department of Army, Army Materiel Command (AMC), U.S. Army Information Systems Command (USAISC), and Foreign Military Sales (FMS) customers.

BUSINESS AREA COMPOSITION:

Army Central Design Activities (CDAs) chartered in the Information Services business area are:

Industrial Logistics Support Center (ILSC), Chambersburg, PA
Logistics Systems Support Center (LSSC), St. Louis, MO
Software Development Center-Lee (SDC-Lee), Fort Lee, VA
Software Development Center-Huachuca (SDC-Hua), Fort
 Huachuca, AZ
Software Development Center-Washington (SDC-Wash), Fairfax,
 VA

ILSC and LSSC are part of AMC, located in Alexandria, Virginia. ILSC and LSSC report to AMC through separate intermediate commands, the Industrial Operations Command (IOC) at Rock Island, Illinois, and the Missile Command in Huntsville, Alabama, respectively. ILSC will move from Chambersburg to Rock Island beginning in late fiscal year (FY) 1996 due to a Base Realignment and Closure (BRAC) action.

SDC-Lee, SDC-Hua and SDC-Wash are all part of USAISC, located at Fort Huachuca, Arizona. These CDAs report to USAISC through the Information Systems Software Center (ISSC), located at Fort Belvoir, Virginia. SDC-Hua will be disestablished during FY 1996 leaving only two USAISC CDAs.

INFORMATION SERVICES

BUDGET HIGHLIGHTS:

In FY 1996, the Army added CDAs to the existing Information Services Business Area in the Defense Business Operations Fund (DBOF). During FY 1996, the business operates on a reimbursable basis. For FY 1997, rates have been established and the business will operate under the total DBOF concept.

Personnel.

	FY 95	FY 96	FY 97
Civilian End Strength	N/A	908	847
Civilian Work Years (Regular)	N/A	1,004	881
Military End Strength	N/A	300	267
Military Work Years	N/A	300	236

Civilian end strength decreases from the previous President's Budget submission by 29% for FY 1996 and 34% for FY 1997. Military end strength decreases 11% for FY 1997. These decreases are attributable to streamlining, Combined Arms Support Command (CASCOM) reprogramming, reduced support to the Army Civilian Personnel System (ACPERS), elimination of support to the Internal Revenue Service, consolidation of Civilian Personnel Offices (CPOs), and the elimination of SDC-Hua.

Costs, Operating Results (OR), And Rates:

	FY 95	FY 96	FY 97
Costs of Goods & Services Sold	N/A	173.8	137.7
Net Operating Results	N/A	0.0	0.0
Accumulated Operating Results	N/A	0.0	. 0.0
Customer Revenue Rate Per DLH	N/A	N/A	64.89
% Rate Change from Prior Year	N/A	N/A	2.2%
Unit Costs (\$/DLH)	N/A	N/A	61.75
DLH (000)	N/A	N/A	2,229.9

INFORMATION SERVICES

Costs. Total costs decrease from the prior President's Budget submission by 6% for FY 1996 and 26% for FY 1997. Downsizing and the elimination of SDC-Hua account for these reductions.

Unit Costs. No valid comparison can be made between years because FY 1996 operations were cost reimbursable.

Productivity Initiatives/Cost Reductions. Elimination of SDC-Hua during FY 1996 creates a significant cost reduction of \$ 29.4 M.

Capital Budget. The CDAs have no capital projects at this time.

DEFENSE BUSINESS OPERATIONS FUND - ARMY ARMY INFORMATION SERVICES REVENUE AND EXPENSES (Dollars in Millions)

	FY 1995	FY 1996	FY 1997
Revenue: Gross Sales Operations Capital Surcharge Depreciation		173.8 173.8 173.8	137.7 137.7 137.7
Expenses: Cost of Material Sold from Inventory			
Negotiated Purchases from Customers Transportation Salaries and Wages: Military Personnel Civilian Personnel Materials, Supplies & Parts Used in Operations Facility Repair & Maintenance Depreciation/Amortization Contracted Engineering Services Lease Costs Purchased Utilities Purchased Communications Equipment Maintenance by Contract		0.1 78.1 10.0 68.1 2.1 0.0 0.0 4.2 0.2 0.6 25.9	0.1 61.3 8.6 52.7 2.6 0.0 0.0 0.0 3.9 0.2 0.7 2.0
Fuel Other Expenses		62.6	66.9
Cost of Goods Produced:		173.8	137.7
Change in WIP		0.0	0.0
Cost of Goods Sold:		173.8	137.7
Operating Result:		0.0	0.0
Prior Year and Other Adjustments Other Changes Affecting NOR/AOR		0.0	0.0
Net Operating Result:		0.0	0.0
Prior Year AOR (adjusted)		0.0	0.0
Accumulated Operating Results		0.0	0.0

DEFENSE BUSINESS OPERATIONS FUND - ARMY INFORMATION SERVICES SOURCE OF REVENUE (NEW ORDERS) (Dollars in Millions)

	FY 1995	FY 1996	FY 1997
1. New Orders a. Orders from DoD Components: Army Navy	N/A	138.7	111.7
Air Force Marine Corps DLA Other DOD		0.1	0.1
b. Orders from other Fund Business Areas	:	33.4	24.8
c. Total DoD		172.2	136.6
d. Other Orders:		1.6	1.1
Other Federal Agencies Foreign Military Sales Non-Federal Agencies All Other		1.6	1.1
2. Carry-in Orders		0.0	0.0
3. Total Gross Orders		173.8	137.7
4. Change to Backlog		0.0	0.0
5. Total Gross Sales		173.8	137.7

DEFENSE BUSINESS OPERATIONS FUND ARMY INFORMATION SERVICES CHANGES IN COSTS OF OPERATIONS (DOLLARS IN MILLIONS)

FY 1995 Actual Cost		0.0
FY 1996 Estimate in President's Budget		185.3
Pricing Adjustments General Purchase Inflation		(1.1) (1.1)
Program Changes Workload Realignment due to Downsizing		(10.4)
FY 1996 Current Estimate		173.8
Pricing Adjustments Annualization of Prior Year Pay Raises FY 1997 Pay Raise Civilian Personnel Military Personnel Fund Price Changes General Purchase Inflation	1.5	2.9 0.4 1.5
Program Changes: Disestablishment of SDC-HUA Decrease in Cost of Contracts Other Downsizing	(29.4) (3.8) (5.8)	(39.0)
FY 1998 Estimated Cost		137.7

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CAPITAL BUDGET

BUSINESS AREA CAPITAL BUDGET SUMMARY	Component: Army	Supply Management, Army	March 1996	(\$ IN MILLIONS)
BUSI				

Line Number	ltem Description	P. Quantity	FY95 Tot Cost	R Quantity	FY96 FY97 Tot Cost Quantity Tot Cost	Quantity	FY97 Tot Cost
96-1	Equipment -Replacement Mini-Computer System Product Production Equipment Replacement			1	0.300	1	0.300
96-96-96-96-96-96-96-96-96-96-96-96-96-9	Materiel Management Equipment Replacement Logistics and Maintenance Equip Replacement Data Servers			318 39 2	1.230 0.195 0.755	85 72	0.365
7-76	LAN Replacement-ERF Software		1				0.200
96-17 96-18 96-19 96-20	Single Stock Fund Standard Army Automated Contracting System Standing/Availability Multi Method Allocation for Spares Joint Logistics Systems Center PADDS-FDI		3.500 0.600 11.500		0.400		15.000
97-3 97-4 97-6 97-7	Common User Interface Conversion of MILSTEP Central Asset Management Zero Tech Time Loop		0.226				4.933 0.489 5.000
9-96	Non ADPE Equipment-Replacement Kearney & Trecker Machining Center			_	0.150		
	Total		18.976		15.523		26.905

SUPPLY MANAGEMENT, ARMY FY 96 DBOF Capital Purchases Deferrals, Cancellations, Substitutions

Army (Dollars in Thousands)

- 1. SMA 96-20 JLSC
- a. Software Development
 b. Army was identified as first service to be fielded, therefore funding was transferred from other services to Army.
 c. FY 95 President's Budget \$7,500.

		BUSINES	BUSINESS AREA CAPITAL PURCHASES JUSTIFICATION (\$ in Thousands)	APITAL PURCHA (\$ in Thousands)	PURCHA: usands)	SES JUST	IFICATIO	Z		A. Budget Submission FY 97 President's Budget	ssion Jent's Budg	ot.
B. Component/Business Area/Date Supply Management, Army March 1996	March 19	966				C. Line No. & Item Description Mini-Computer Sys 96 - 1	Line No. & Item Description Mini-Computer System 96 - 1	stem		D. Activity Identification Missile Command (MICOM)	fication nmand (N	IICOM)
		FY 94			FY 95			FY96			FY97	
Element of cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Unit Cost Total Cost	Quantity	Unit Cost	Unit Cost Total Cost	Quantity	Unit Cost Total Cost	Total Cost
Hewlett Packard Mini-Computer										_	300	300

Defense Business Operations Fund Direct Mission

The current system is outdated and serves approximately 100 users. With the prospects of additional personnel from other commands moving contractual documents. This requirement will expand the capabilities in workplace automation. The computer system will allow the acquisition to MICOM, more users will be required to use the system. Failure to procure the needed equipment will result in many insufficiencies, such as inability to communicate with other commands, and will delay in preparing solicitations, amendments, contract awards, modifications and other center to accomplish these assigned functions and missions in a more timely manner. The software applicable to be used on Hewlett Packard This requirement is necessary to replace an existing system that supports Procurement Automated Data and Document System (PADDS). 9000 is Oracle at an estimated cost of \$49,000.00.

Hewlett Packard 9000 series super mini-computer software: Operating system oracle database management system.

The economic analysis shows this system will save \$257K over a two year period and save three workyears in productivity.

		BUSINE	SS AREA (SAPITAL PURCHA (\$ in Thousands)	BUSINESS AREA CAPITAL PURCHASES JUSTIFICATION - (\$ in Thousands)	S JUSTIFI	CATION		,	A. Budget Submission FY 97 President's Budget	sion dent's Bud	get
B. Component/Business Area/Date SUPPLY MANAGEMENT, ARMY (SMA) March 1996	RMY (SM	IA) Marc	ch 1996		C. Line No. & Item Description Materiel Management Equipment Replacement 96-3	Description agement E	quipment P 96-3	keplacemen		D. Activity Identification Communication & Electronic Command (CECOM)	fication ation & Ele (CECOM)	ectronic
		FY 94			FY 95			FY96			FY97	
Element of cost .	Quantity	Quantity Unit Cost	Total Cost Quantity	Quantity	Unit Cost	Total Cost Quantity		Unit Cost	Total Cost	Quantity	Unit Cost Total Cost	Total Cost
Replacement of Personal Computers										85	4.13	365
	24825											

by 1996. The data information infrastructure designed by the Directorate for Corporate Information (DCI) for the use on the Main Post will make DMM payroll. Based on a BRAC decision, DMM, along with the other HQ elements of CECOM, must move to the Main Post of Fort Monmouth computers. Such conditions would render over 65% of the Directorate workforce under-productive, since these obsolete personal computers The Directorate of Materiel Management (DMM) requires replacement of personal computers. The DBOF SMA account funds 85 % of the the existing personal computers virtually useless as tools in a network environment. Their only value will be as stand alone personal would not support a Windows Software Environment, provide file transfer capability or encourage a paperless workplace.

An economic analysis was performed and showed cost benefit of \$8.9 million with the program having a 6 year payback period and saving 259 manyears of labor in the seventh year.

This program has already been approved.

		BUSINES	BUSINESS AREA CAPITAL PURCHASES JUSTIFICATION (\$ in Thousands)	APITAL P (\$ in Tho	PITAL PURCHAS (\$ in Thousands)	ES JUSTI	FICATION	_		A. Budget Submission FY 97 President's Budget	sion ident's Bud	get
B. Component/Business Area/Date SUPPLY MANAGEMENT, ARMY (SMA)	MY (SMA	-	Aarch 1996		c. Line No. & I Logistics &	C. Line No. & Item Description Logistics & Maintena	nce Equipi 96-4	C. Line No. & Item Description Logistics & Maintenance Equipment Replacement 96-4		D. Activity Identification Communication & Electronic Command (CECOM)	fication & Ell (CECOM)	ectronic
		FY 94			FY 95			FY96			FY97	
Element of cost	Quantity	Quantity Unit Cost	Total Cost	Quantity	Unit Cost Total Cost	Total Cost	Quantity	Unit Cost	Unit Cost Total Cost	Quantity	Unit Cost	Total Cost
Replacement of Personal Computers										72	5	360
Replacement of Laptops												

The Logistics and Maintenance Directorate (LMD) is funded for payroll as follows: 36% = SMA, 40% = Reimbursable, and 24% = OMA. This justification applies to the SMA portion only. The Logistics and Maintenance Directorate has approximately 500 people on its roles. Each employee is a heavy user of state of the art computer technology. Some of our technology will reach its expected end of its useful life during FY 95.

and blessed by the Directorate for Corporate Information (DCI). Without this planned replacement our assets will be in more frequent need of successfully planned for in the past, and in fact has been built into the LMD Automation Plan, and briefed to the Logistics Readiness Center Approximately one fifth of our equipment will need replacement every year in order to remain current. This fact has been known and repair, cause loss of productivity and will no longer run the state of the art software that is necessary for productivity.

We plan to follow the CECOM Directorate for Corporate Information (DCI) lead as to configuration for FY 95. If necessary we will use their recommended contractor. The purchase of 3 new notebook computer's to replace 8 year old Zenith Laptops for travel and special assignments away from the work area is also included. These are to be of notebook or smaller variety and must be compatible with desktop hardware and designated standard configurations.

An economic analysis identified project as an offset to the requirement to replace one fifth of existing equipment each year.

This program has already been approved.

	BUSINES	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION (\$ in Thousands)	CAPITAL	INVESTM (\$ in Tho	IVESTMENT JUS (\$ in Thousands)	TIFICATIO	N O			A. Budget Submission FY 97 President's Budget	nission sident's Bu	dget
B. Component/Business Area/Date Supply Management, Army March 1996	1996					C. Line No. & Item Description 97-2 CCSS High-speed I	2. Line No. & Item Description 97-2 CCSS High-speed printer	ո printer		D. Activity Identification Missile Command	ntification ommand	
					FY 95			FY 96			FY 97	
Element of cost				Quantity	Quantity Unit Cost Total Cost Quantity	Total Cost	Quantity	Unit Cost	Unit Cost Total Cost Quantity Unit Cost Total Cost	Quantity	Unit Cost	Total Cost
Printer Replacement	·										258	258

- printing of the Commands critical item accounting, acquisition, payroll, and other Commodity Command Standard System and unique applications. The PPS-II systems output approximately 3.5 million pages per month. a. Current Process: The U.S. Army Missile Command is currently utilizing two Honeywell PPS-II high-speed printers to support
- the end of their expected life cycles. Repair parts are in such short supply they are being cannibalized from other printers. Acquisition b. Anticipated Benefits: The printers currently in use are approximately 8 years old, are constantly being repaired, and have reached of new printers will ensure that MICOM's critical Item accounting, acquisition, payroll, and other CCSS and unique applications are printed as required.
- c. Project Start/Completion Date: The U.S. Army Missile Command Axquisition Center indicates that award of a contract for replacement printers can be made from GSA schedules within 30 days of receipt of funds.
- d. Regulatory Requirements that are Impetus for the change: AR 25-1, para 2-3b.
- e. Classification of Equipment/Construction Purchases (Replacement, Productivity, or New Mission): Replacement of Honeywell PPS-II high-speed printers.
- If funding to replace the printers is not made available, the potential exists that printing to support mission essential operations will not be possible. approximately eight years old, are being repaired constantly, and have reached the end of their useful lives, replacing them is imperative. f. Impact if not funded: The Honeywell PPS-II high-speed printers support printing of the Command's critical item accounting, acquisition, payroll, and other Commodity Command Standard System and unique applications. The PPS-II systems output

		BUSINESS	SS ARE	AREA CAPITAL INVESTMENT JUSTIFICATION (\$ in Thousands)	APITAL INVESTM (\$ in Thousands)	MENT JUS	STIFICAT	NO		A. Budget Submission FY 97 President	A. Budget Submission FY 97 President's Budget	dget
B. Component/Business Area/Date Supply Management, Army March 1996	March 19	966				C. Line No. & Item Description 97-7 Local Area Network	C. Line No. & Item Description 97-7 Local Area Network (LAN)	، د (LAN)		D. Activity Identification Army Materiel (Europe (ERF)	A. Activity Identification Army Materiel Command Europe (ERF)	ımand
					FY 95			FY 96			FY 97	
Element of cost				Quantity	Unit Cost	Unit Cost Total Cost Quantity	Quantity	Unit Cost	Total Cost Quantity	Quantity	Unit Cost Total Cost	Total Cost
Local Area Network/ Radio Freq (LAN/RF)												200
		· · · · · · · · · · · · · · · · · · ·										

- a. Current Process: A fixed Local Area Network (LAN) with limited expansion.
- ones. Each device is mobile and requires minimal mounting brackets. LOGMARS could also be installed to give on-line access to the Frequency (LAN/RF) would give the warehouses much needed flexibility to adjust to the changing missions and be able to accept new b. Anticipated Benefits: Unlimited flexibility in installing and configuring a Depot Area Network. The Local Area Network/Radio Standard Depot System.
- training and testing could be accomplished within a two month time frame. Equipment is readily available and a acquisition would be c. Project Start/Completion Date: The starting date is predicated on the acquisition of the funds. Completion time for installation, through the U.S. Army contracting solicitation and procurement process. (43 implementations sites)
- d. Classification of Equipment: Replacement
- materiel redistribution missions. Supply and overall logistics data can be transmitted/received to/from each warehouse or received by the European Redistribution Facility (ERF) central ADP point from any storage or administrative location on the facility. If necessary each piece of RF equipment can be moved without physical disruption to any building or its operation. Each RF device is mobile, unlike cable, which is fixed in location. The newly acquired LOGMARS equipment (FY94) can be fully utilized with this requested e. Impact if not funded: The LAN/RF provides the entire warehousing operation with the ability to adjust to changing/increasing

BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION (\$ in Thousands)		A. Budget Submission FY 97 President's Budget
B. Component/Business Area/Date Supply Management, Army · September 1995 (Narrative Justification continued)	C. Line No. & Item Description 97-7 Local Area Network (LAN)	D. Activity Identification AMC-E (ERF)

(UNISYS) and not be able to expand materiel receipt issue data and would be delayed on accepting new missions or increasing the daily assigned and required to report quantities of materiel. Reporting would be spontaneous (regardless of location of the employee), thus limited to one central video in-processing station. The current GSA UNISYS repair contract is also very limited on the amount of older drive the cost of an ADP upgrade to approximately \$100,000 for earth construction alone. Drilling holes for cable entry access would again offers limited upgrade capabilities since it is fixed in place and would require more digging if a mission change/addition required saving an unknown amount of inventory reporting time. This saved time would result in the employee(s) being able to cover a host of weaken warehouse structures and possibly add another \$100,000 for this type of work. Once the cable is installed and operational it (approximately) one year of construction time. There is also the high risk of construction equipment cutting a utility line on post, such volume of receipt and issue information. There would also be a risk of an ADP materiel processing backlog since the input would be generated. The backlog would give a false reading on a priority basis. The installation of stationary/fixed underground cable would operations while the cable trench is opened from warehouse to warehouse. Cabling would also disrupt transportation traffic during to change to the cable configuration. The environmental impact of digging lines for cable would be disruption to the overall facility other logistic operations at ERF. If the LAN/RF is not funded then ERF is forced to remain at the current computer configuration equipment that can be repaired/maintained, thus, if any portion of the hardware is off-line for servicing then a backlog would be LAN/RF equipment allowing ADP input/output to any part of a warehouse or to any outside storage area where employees are as gas, water, sewage and electric.

ADP equipment. ERF saves the U.S. Government approximately \$6.5M per fiscal year in transportation savings alone, by shipping The major impact would be to limit the ERF from accepting or expanding new missions due to the age and current limitations of the on-hand materiel directly to units in theater, rather than extending receiving time for materiel from a CONUS-based supply activity.

f. Activities to receive Equipment/System: European Redistribution Facility, Nahbollenbach, Germany

		BUSINES	S AREA C	CAPITAL I	APITAL PURCHA((\$ in Thousands)	BUSINESS AREA CAPITAL PURCHASES JUSTIFICATION (\$ in Thousands)	IIFICATIC	N		A. Budget Submission FY 97 Presider	A. Budget Submission FY 97 President's Budget	dget
B. Componen/Business Area/Date SUPPLY MANAGEMENT, ARMY March	RMY Ma	arch 1996				C. Linc No. & Item Description Materiel Mgmt Standard : ADPE Equipment 96-20	Item Description Agmt Stanupment	ا اطعاط Sys 96-20	C. Line No. & Item Description Materiel Mgmt Standard Sys(MMSS) Joint Logistics Systems ADPE Equipment 96-20 Center (JLSC)	D. Activity Identification Joint Logistics S Center (JLSC)	ntification Stics Syst LSC)	sme
		FY 94			FY 95			FY96			FY97	
Element of cost	Quantity Unit	Unit Cost	Total Cost	Quantity	Unit Cost	t Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity	Quantity	Unit Cost	Total Cost		Unit Cost	Total Cost
Hardware User Level												15000
TOTAL HARDWARE												15000

Systems Center to the Army Inventory Control Points (ICPs). During the recent budget review, the responsibility of budgeting for acqusition of These funds are to support the fielding of the Materiel Management Standard System (MMSS) being developed by the Joint Logistics hardware for Fiscal Years 1995-1997 was transferred from the JLSC to the Military Services and Defense Logistics Agency.

working with the Military Services and the Defense Logistics Agency (DLA), has evaluated the processes of the DoD Inventory Control Points The MMSS was created in response to the DoD initiative to standardize logistics systems across DoD. Over the past two years the JLSC, (ICPs), selected and developed the most optimum automated information systems to support improved standard business practices. This request funds the continued deployment of these systems to the Department ICPs.

vary in size from those including servers at approximately \$314K per site to personal computer workstations with 17 or 15 inch displays at \$3.1 nears, and taking into account acquisition lead times, a final survey will be conducted to confirm requirements. Representative configurations - \$2.7K per site and X-terminal workstations at \$2K per site. This represents a mixture of those configurations dependent upon deployment currently at that site. This requirement is based upon site surveys representative of various size sites. As deployment to a specific site The type and amount of equipment needed is dependent upon the size of each site and the availability and applicability of equipment schedule and site requirements.

establish a systems infrastructure on which DoD can improve the way it does business. Specific improvements include; reduced inventories through better management; reduced labor requirements; reduced overhead costs; and improved control of assets. Once implementation is The MMSS will provide a radically improved functional capability to the Military Services and DLA, reduce costs for information services and completed, legacy applications will be reduced or eliminated decreasing ADP costs markedly

This program has already been approved for FY 95. FY 96 reflects a \$4.5 million increase and FY 97 reflects a \$6.4 million increase over the previously approved program. JLSC has coordinated these increases with DoD Comptroller, Program and Budget Office.

		BUSINES	S AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION (\$ in Thousands)	VESTMEN sands)	IT JUSTIF	ICATION			A. Budget Submission FY 96 President	A. Budget Submission FY 96 President's Budget	dget
B. Component/Business Area/Date Supply Management, Army March 1996	ch 1996			,		C. Line No. & Item Description 97-3 Common User Inter	2. Line No. & Item Description 97-3 Common User Interface	" erface		D. Activity Identification AMC/SIMA-WE	2. Activity Identification AMC/SIMA-WEST	
					FY 95			FY 96			FY 97	
Element of cost				Quantity	Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Tota
Labor CDA Software Acquisition Labor-Contractor												2892 570 1471
Total												4933

of new and old systems/databases residing on different hardware/software platforms which will require retraining each time new systems addition, commericial-off-the-shelf (COTS) software such as spreadsheets, word processors and e-mail would also be available from the are introduced and old systems are replaced. In order to provide users with maximum access to these systems, a common workstation access path needs to be established using a client server environment in which data would reside on the mainframe and the business Automated System (AIS) environment is expected to take place over serveral years in an incremental fashion. During this timeframe, same workstation. This common workstation approach would establish and maintain a stable environment fo the end user, minimize expected to be replaced by the DoD CIM systems so that the end users will be faced with trying to navigate through a combination a. Current Status: Introduction to Department of Defense (DoD) Corporate Information Management (CIM) systems into the Army Army must continue to rely on existing legacy systems to conduct its daily operations. Not all of the current legacy systems are capability to query functional databased residing on the server and request information residing on legacy system mainframes. rules on the client server platform. Such system would allow users to perform all work functions from a single workstation with retraining efforts and case the trnsformation from the existing legacy systems to their replacing CIM systems.

- support which will be required to provide end users with access to required data information from a mixture of legacy CIM systems b. Anticipated Benefits: Reduce the amount of Major Subordinate Command (MSC) Director of Information Management (DOIM) operating on different hardware/software platforms, databases, ect.
- c. Project Start/Completion Date: 1 Qtr FY 96 / 2 Qtr FY 97
- d. Classification of Equipment: Replacement

D Compount Business Area Date		BUSINESS	SS AREA	CAPITAL (\$ in Tho	APITAL INVESTN (\$ in Thousands)	AREA CAPITAL INVESTMENT JUSTIFICATION (\$ in Thousands)	STIFICAT	NOI		A. Budget Submission FY 97 Presiden	A. Budget Submission FY 97 President's Budget	dget
Supply Management, Army March 1996	rch 199	96				C. Line No. & Item Description 97-4 Conversion of MILSTEP Variable Length Record	Item Description on of MILS Length Ro	C. Line No. & Item Description 97-4 Conversion of MILSTEP to Read Variable Length Records 97-4		D. Activity Identification AMC/LOGSA	ntification 3SA	
					FY 95			FY 96			FY 97	
Element of cost				Quantity	Unit Cost	Unit Cost Total Cost	Quantity	Unit Cost	Unit Cost Total Cost Quantity	Quantity	Unit Cost Total Cost	Total Cost
Labor CDA												489

- Raw requisition and status data is processed and sorted into several hard copy performance reports for use by Inventory Control Points a. Current Process: MILSTEP reads transactions such as requisitions and supply status records which are in 80 cards column format. and higher headquarters. In summary, intensive manual effort is required to transmit and translate MILSTEP data into the charts and spreadsheets required to perform supply performance analysis. Information is stored in flat files in 29 year old database.
- b. Anticipated Benefits: MILSTEP, if converted, would be able to read and compile reports based on the new variable length records centralized, relational database with Graphic User Interface, reports not available through current canned output products could be and new transaction formats described in the Defense Logistics Management Standard System (DLMS). If data were put into a produced
- c. Project Start/Completion Date: Nov 95/Nov 97.
- d. Regulatory Requirements that are Impetus for the change: Not Applicable.
- e. Classification of Equipment: Replacement
- would cease because it would not be programmed to read variable length records and new transaction formats. DLMS is schedule for implementation in Oct 98 (test site in Oct 96). f. Impact if not funded: MILSTEP supply performance reporting as described in DoD 4000.23, DoD 4100.25-1-M, and DoD 4410.6
- g. Activities to receive Equipment/System: HQ Army Materiel Command (AMC, Major Subordinate Commands (MSCs), Logistics Support Activity (LOGSA), HQDA.

		BUSINESS	CAPITAL (\$ in The	APITAL INVESTM	AREA CAPITAL INVESTMENT JUSTIFICATION (\$ in Thousands)	STIFICAT	NOI		A. Budget Submission FY 97 President	A. Budget Submission FY 97 President's Budget	ıdget
B. Component/Business Area/Date Supply Management, Army March 1996	March 18	966			C. Line No. & 97-6	C. Line No. & Item Description 97-6	=		D. Activity Identification Army Materiel (Activity Identification Army Materiel Command 	nmand
					Central A	Central Asset Management	agement		(AMC)		
				FY 95			FY 96			FY 97	
Element of cost			Quantity	Unit Cost	Total Cost Quantity	Quantity	Unit Cost	Total Cost Quantity	Quantity	Unit Cost	Total Cost
1. CCSS Modification * 2. Def MEGA Ctr/site Cost											
* 3. SIMA-E Systems Mods * 4. SIMA-E per site Cost											
* 5. SIMA-W per site TDY Cos	•										
* 6. Starfiars-Mod Interface						•					
Total											5.000

- Operations per AR 710-2. Installations and Corps will operate NICP Custodial Supply Accounts Materiel Management and Financial a. Current Process: Central Asset Management will eliminate the current retail MACOM level Stock Funds and Associated Financial Inventory Accounting Operations at installation level Central Asset Management will also eliminate AR-710-2 Supply Support Inventory Accounting functions will be centralized at national level.
- (10 year period) in reduced supply and financial operations costs. Additionally Central Asset Management provides business practice b. Anticipated Benefits: Approximately \$1.2B (over 10 year period) in Secondary Items Inventory benefits and approximately \$.7B changes which permit integrated sustainment maintenance and Total Asset visibility to achieve full potential.
- c. Project Start/Completion Date: In accordance with the Army SSF EA, implementation starts in FY 95 and concludes in the FY 99 (43 implementations sites).
- and financial management operations to perform at same or increased levels of performance after prior reductions in resourcing via the Regulatory Requirements: Not Applicable. Central Asset Management is an improved business process designed to permit supply defense management review decision resource reductions.
- Classification of Equipment/Construction Purchases: Replacement & New Mission.
- f. Impact if not funded: \$1.9B in avoidable operational costs.
- g. Activities to receive Equipment/System: Implementation Army-wide at Installations, Corps, NICP's and Maintenance Depots.

	Business Area Capital Investment Summary Army Depot Maintenance, Other (\$ in Millions)	Investmen ntenance, C Ilions)	Summary ther				
Line		E	FY 95	Ε¥	FY 96	F	FY 97
Number	Description	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
27 144	EQUIPMENT Replacement			-	1560		
97-M2	Election beam welder Plasma Spray Call Ingrade			- m +-	2.300	-	0.600
97-M5	Integrated Family of Test Equipment Nations Other Enginement (<\$500,000)	-	6.500	- 04	13.519	30	13.027
97-M13 97-M16	Bore Drill Milling Machine Horizontal Boring Mill - Rebuild					- 0 -	1.400
97-M30 97-M31	Xerox 4090 Page Printer Page Printing System						0.415
97-M8	Productivity Rubber Products Modernization	-	1.814				
97-M9 97-M10				_	2.067	4	2.074
97-M24	Computer Numerical Control Punch Press			-	3.244	_	0.615
97-M26	Aliciali Laser raili Sulpper Electronic Van Refurbishment			•		-	0.875
97-M11 97-M12	Environmental Compliance Waste Minimization Cap Acct Fume/Dust Collection System	-	0.400		1.554	ν-	0.200
97-M14 97-M15	New Mission Vehicles, DMPE/NWSS Aircraft, DMPE	W- 4-	2.552				
	TOTAL	ις.	16.566	49	28.544	43	23.731
97-M17 97-M18	ADPE & TELECOMMUNICATIONS Sperry 5000 Systems Replacement Network File Servers			10	4.201 0.215	- 10	
97-M19	Personal Computers			20	0.129	0.10	
97-M21	Fiber Optic LAN			-	7.760		1.286
97-M23 97-M27	Depot Maintenance System (DMS) Frigineer PC CADD Upgrade		2.017	-	4.364	_ ~	0.161
97-M28	Encrypted Trunk Radio Network						1.544
87M-78	Laser Digitizing System TOTAL	-	2.017	88	17.614		7.661
97-M22	MINOR CONSTRUCTION Minor Construction Projects	о	5.237	80	7.000	8	11.300
	TOTAL	6	5.237	80	7.000	8	11.300

	Business Area Capital Investment Summary Army Depot Maintenance, Other (\$ in Millions)	Capital Investmen oot Maintenance, ((\$ in Millions)	t Summary Other				
Line		1	FY 95	Ĺ	FY 96	Ţ	FY 97
Number	Description	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost
97-R1 97-R2 97-R3 97-R5 97-R5 97-R6 97-R1 97-R10 97-R11 97-R12 97-R15 97-R15 97-R15 97-R15 97-R16	Reliability, Maintainability & Supportability Mod AH-64 TADS Azimuth Actuator AH-64 PAN'S Azimuth Actuator AH-64 PAN'S Azimuth Actuator UH-60 Tail Rotor Blade Assembly AH-64 Primary IR Nozzles: Rivets to Bolts AH-64 Primary Heat Suppresser Materials AH-64 Primary IR Nozzles: Rivets to Bolts AH-64 Main Rotor Pitch Housing AH-64 Main Rotor Pitch Housing AH-64 Main Rotor Blade Surface Prep. AH-64 Main Rotor Blade Surface Prep. AH-64 Main Rotor Lead/Lag Link AH-65 Day Shroud Harness AH-64 Day Shroud Harness AH-65 Day Ule Main Rotor Leadle (Purge) Valve PP-7815 Power Processor Redesign Advanced QUICKLOOK Surveillance System AN/PRD-12 Direction Finding Set HMMWVV Mounted MLRS FCP-TPT M1 Series Slip Ring Upgrade						1,600 0.137 0.543 0.922 1,248 0.320 0.425 0.900 0.420 0.420 0.900 0.241 0.256 1,573 4,380 0.807
	TOTAL GRAND TOTAL	, 1	23.820		53.158		24.800 67.492

DEFERRALS, CANCELLATIONS, SUBSTITUTIONS FY 1996 DBOF CAPITAL PURCHASES **DEPOT MAINTENANCE - OTHER**

ARMY (\$ IN 000)

Depot Maintenance - Other - Industrial Operations Command (IOC)

- a. Replacement Depot Maintenance Plant Equipment (DMPE), Replacement \$ 15,436 b. Cancellation of projects
- c. Capital project totalling \$15.436 million was cancelled because FY 1997 Construction was delayed until after FY 1998

B. Component/Business Area/Date		Captal Budget Category: Equipment - Replacement (\$ in Millions)	Captal Budget Category: Equipment - Replacement (\$ in Millions) C. Line No.	ulpment - Rej	olacement C. Line No.	Infication lacement C. Line No. Item Description	υ		A. Budget Submission FY 1997 Budget Submission D. Activity Identification	nnission et Submission ntification	
Army, Depot Maintenance - Other	<u>.</u>	FY 95	March 1996		97-M1 FY 96	Electron Beam Welder	Welder	FY97	Corpus Christi Army Depot	Army Depot	
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Electron Beam Welder					1.560	1.560					

This project replaces the existing electron beam welder, which is time worn and can not measure, record, or program any welding parameters. In addition, it is not capable of real-time monitoring of the Electron Beam welding process. The equipment was manufactured in 1975 and is now obsolete. Maintenance costs are excessive (typically exceeding \$60K per year) and the equipment reaches the end of its life expectancy in FY 1995. Reliability is only 70% due to excessive down time. Parts are sent to Kelly Air Force Base when the equipment is broken generating additional overhead cost. The new Electron Beam Welder has the capability to weld certain types of materials in a vacuum atmosphere. It has a 32-bit Central Processing Unit, 3.5 and 5.25 disks, closed-circuit TV, combination linear rotary table, optical viewing system, and seam locating system.

costs will continue to increase as the equipment deteriorates due to its advanced age and lack of parts availability. In addition, production costs will escalate due to: 1) Loss of production during Without the proposed equipment, Corpus Christi Army Depot (CCAD) will continue to use the existing welder which suffers long periods of down time and operates inefficiently. Maintenance equipment downtime; 2) Production inefficiencies associated with slow vacuum pump down time, material processing procedures, and the manual steps required to actually weld the part; 3) Transport of the repair items to the nearest facility that is able to weld the items. CCAD eventually loses engine work load due to inability to process parts.

C. Line No. Item De C. Line No. Item De Plasma Pl		BUS	INESS AREA aptal Budget	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Replacement (\$ in Millions)	ESTMENT JUS uipment - Rep ons)	STIFICATION				A. Budget Submission FY 1997 Budget Submission	omission et Submission	
Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Onit Co	B. Component/Business Area/Date Army, Depot Maintenance - Other	m 1-		March 1996		C. Line No. 97-M2	Item Descriptic	on Cells		D. Activity Ide Corpus Christi	ntification Army Depot	
Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Onit Cost On			FY 95			FY 96			FY97			
3 0.767	Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost		Quantity	Unit Cost	Total Cost		
	Plasma Spray Cells				ო ო							

This project reduces production-cycle time and operating costs in processing metal sprayed parts. In addition, sufficient metal spray production capacity is established to ensure that parts are new cells provide flexibility by approaching just-in-time production. This means having the capability to process only the parts that are required - only when they are needed. The cells consist efficiently processed at the lowest possible cost. This is accomplished by developing smooth-flow production and by eliminating unnecessary work, such as excessive routing and queuing delays. The majority of the present equipment is old and does not take advantage of new technology. Currently, set-up times are unnecessarily long as is the actual processing time. The of equipment that has short set-up and processing times resulting in shorter production cycle times and lower production costs.

If this equipment is not acquired, Corpus Christi Army Depot will continue to experience periodic production bottlenecks and delays in the metal spraying of parts resulting in long production cycle times and high production costs.

	BOX	ISINESS AREA CAPITAL INVESTMENT JUSTIFICATI(Captal Budget Category: Equipment - Replacement (\$ in Millions)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Replacement (\$ in Millions)	STMENT JUS Lipment - Rep ins)	STIFICATION				A. Budget Submission FY 1997 Budget Submission	ission Submission
B. Component/Business Area/Date Army, Depot Maintenance - Other	te 3r		March 1996		C. Line No. 97-M4	C. Line No. Item Description 97-M4 Engine Test Cell Upgrade	on ell Upgrade		D. Activity Identification Corpus Christi Army Depot	fication my Depot
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Engine Test Cell Upgrade Phase IV, V, and VI				~	2.400	2.400	-	0.600	0.600	
IATOT						2 400			0 600	1888

This project continues phases three, four, five and six of a six phased effort to replace the obsolete data acquisition and controls in Corpus Christi Army Depot's (CCAD) engine test cells to support the AH-1S/W and the UH-1 aircraft engines. Phase three was initiated in FY 1994. Phases four, five, and six (FY 1996/1997): Existing control room instruments are obsolete and celectronic repair components are not available commercially. Calibration is unreliable which causes a large volume of false indications resulting in extensive rework. Configuration is ocked in hardware and cannot accommodate new engine designs. FY 1996 equipment will be operational June 1996. FY 1997 equipment will be operational June 1997.

A multi-year/phase economic analysis has been completed and validated. Test cells will be utilized approximately 2000 hours per year. Benefit to investment ratio is 2.8 to 1.

If project is not approved, UH-1/AH-1 engine test cells at CCAD that have been partially modified will not be completed and therefore, will never be operational. CCAD is the only available installation that repairs these engines.

	BUSI	VESS AREA C	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	TMENT JUS	TIFICATION				 A. Budget Submission 	ou	
	ర	ptal Budget C	Captal Budget Category: Equipment - Replacement (\$ in Millions)	pment - Repl s)	acement		·		FY 1997 Budget Submission	omission	
B Commonant/Rusiness Area/Date					C. Line No.	C. Line No. Item Description	Ę		D. Activity Identification	tion	
Army. Depot Maintenance - Other			March 1996		97-M5	Integrated Fan	Integrated Family of Test Equipment	uipment	Letterkenny Army Depot	pode	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Integrated Family of Test Equipment				1	1.900	1.900					
(IFTE) Commercially Equivalent											
Equipment (CEE)											
TOTAL				-		1.900					
	CLILL		in soloni	4 of (200) to	ha Army atond	and automotion to	toomainmont	for toeting ala	and the state Arms standard automatic test equipment for testing electronic assemblies and printed	nd printed	

of the weapon system for which there is no test capability on the older AN/USM-410 test stations. The IFTE CEE also offers an increase in execution speed, which eventually reduces the circuit boards. This test station is required for additional capacity to run new test programs being developed to support the Multiple Launch Rocket System (MLRS). The MLRS electronic components. The IFTE CEE test stations replace older AN/USM-410 test stations presently testing MLRS at RRAD. The new IFTE test programs for the MLRS test updated components workload is transitioning from Red River Army Depot (RRAD) to Letterkenny Army Depot (LEAD) and requires use of multiple IFTE test stations to support operational testing of electronic The Integrated Family of Test Equipment (IFTE) Commercial Equivalent Equipment (CEE) is the Army standard automatic test equipment for testing electronic total number of test stations required to support the MLRS. Expected useful life for the equipment is fifteen years. The total objective is to utilize five IFTE test stations to support the MLRS. Two IFTE test stations have been procured in prior years at a cost of \$2.7 million. One existing IFTE test station was diverted from Sacramento Army Depot and is currently in use at RRAD. One IFTE test station is included in the budget year, leaving one test station to be procured in subsequent years, depending on whether planned workload materializes.

If the project is not funded, LEAD will not have an adequate number of IFTE test stations to the MLRS workload.

A. Budget Submission FY 1997 Budget Submission D. Activity Identification Total Cost All Depots 0.434 Unit Cost Various Other Equipment (<\$500,000) 30 Quantity Item Description 13.519 Total Cost 0.338 C. Line No. 97-M7 Unit Cost FY 96 BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Replacement 9 Quantity (\$ in Millions) Total Cost 6.500 March 1996 6.500 **Unit Cost** FY 95 Quantity Various Other Equipment (<\$500,000 Army, Depot Maintenance - Other B. Component/Business Area/Date Element of Cost

Equipment consists of replacement and productivity items to support organic maintenance overhaul, rebuild, conversion, renovation, modification, and repair programs at Army Defense Business perations capability and compliance with regulatory requirements. Includes the acquisition and installation of apital investment items valued between \$.050M and \$.500M with a useful life of two years or more. -und installations. Examples of the equipment to be purchased are hydraulic test stands, gas chromatograph, engine lathe, Computer Nmerically Controlled (CNC) lathe drilling and milling machine, This represents various modernization/replacement equipment costing <\$.500M, which will improve depot efficiency through replacement, modification, or addition of production and maintenance oridge crane, test equipment, parts carousel, and hydraulic press. Replacement of equipment is required due to age, condition or non-availability of repair parts.

13.027

30

13.519

6

6.500

met with current equipment, replaces unsafe or inoperative/unusable assets and includes requirements for environmental hazardous waste reduction or regulatory agency (local, state, Federal) mandated equirements. This new equipment increases reliability and productivity, thus enabling the depots to be more competitive. Acquisition of this equipment improves efficiency, increases capacity that cannot be

If not approved, equipment support capability would not provide for mission needs and would impact in the following ways:

- a. Reduce mission capability.
- b. Cause failure to meet present and future workload requirements.
- C. Increase manhour expenditure
- d. Cause inability to meet production schedules
- e. Lead to excessive downtime.
- f. Decrease accuracy and dependability.

Economic analyses and cost comparisons have been completed and validated on these projects.

	ь	Captal Budget Category: Equipment - Replacement (\$ in Millons)	Category: Equipn (\$ in Millions)	uipment - Rei nns)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Replacement (\$ in Millions)				A. Budget Submission FY 1997 Budget Submission	omission	
B. Component/Business Area/Date Army, Depot Maintenance - Other	e =		March 1996		C. Line No. 97-M13	C. Line No. Item Description 97-M13 Bore Drill Milling Machine	on ng Machine		D. Activity Identification Anniston Army Depot	tion	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Bore Drill Milling Machine								4.050	4.050		

Current bore drill milling machines are forty-three years old, manually operated, cumbersome to set up and operate and spare parts are no longer available. The new machine is required to provide line boring overhaul, reclamation, and modification of combat vehicle hulls and turrets as well as bridges and other related items. The new machine is Computer Numerically Controlled (CNC). Each head can be position hereby, increasing throughput and efficiency of operation. Multiple machining operations can be performed without intermediate material handling for improved safety and precision.

is necessary to economically and safely accomplish overhaul and maintenance workload at the Army's prime depot for heavy-armored recovery and bridging vehicles. Economic Analysis is completed. Benefit _auncher seventy-ton bridge upgrade, and Medium Girder Bridge programs will not be performed. In addition, machine accuracy will continue to deteriorate resulting in increased costs for labor, rework, and in impact of not funding is the loss of machines that manufacture and repair all vehicle and bridge programs. Present production schedules on the M60, M88, M1A1, and M1A2 vehicles will not be met and work Ratio is 0.8; payback period is 9.4 years.

				The second secon							
	BUSI Ca	BUSINESS AREA CAPITAL I Captal Budget Category: (\$ in N	CAPITAL INVESTM Category: Equipm (\$ in Millions)	NVESTMENT JUSTIFICATIK Equipment - Replacement IIIIons)	INVESTMENT JUSTIFICATION Equipment - Replacement fillions)				A. Budget Submission FY 1997 Budget Submission	ission Submission	
B. Component/Business Area/Date					C. Line No.	C. Line No. Item Description	uo		D. Activity Identification	fication	
Army, Depot Maintenance - Other			March 1996		97-M16	Horizontal Bor	Horizontal Boring Mill - Rebuild		Red River Army Depot	Depot	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Horizontal Boring Mill - Rebuild								0.700	1.400		

machine for slower one-side-at-a-time operation. Rebuilding the two machines with Computer Numerical Controls (CNC) allows the boring on the Bradleys to be done simultaneously, thereby, beyond economic repair, with obsolete controls and high maintenance costs. As a result, production is delayed when work must be off-routed to a single Computer Numerical Control (CNC) eliminating errors, which in turn, reduces rework required. The CNC reduces set up and operation costs as well as maintenance down time. The new machines will free the current single Currently, a pair of existing boring mills are used to precision machine both sides of an M2 and M3 Bradley Fighting Vehicle System (FVS) hull simultaneously. These machines are worn CNC for other mission work and improve safety due to reduced material handling. The Defense General Supply Center (DGSC) will rebuild and upgrade the two machines with the CNC.

TOTAL

mpact if not funded is continuation of a slow, labor-intensive process with a single CNC machine resulting in higher unit costs and production delays. The rebuilt equipment is necessary to economically and safely meet overhaul and maintenance workload at the Army's prime depot for FVS and other light armored vehicles.

Economic Analysis is completed. The benefit to investment ratio is 1.5; net present value of savings is \$.164K; and, payback period is 6.2 years.

	BOS	SINESS AREA CAPITAL INVESTMENT JUSTIFICATIO Captal Budget Category: Equipment - Replacement (\$ in Millions)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Replacement (\$ in Millions)	ESTMENT JU uipment - Re _l nns)	STIFICATION placement				A. Budget Submission FY 1997 Budget Submission	ission
B. Component/Business Area/Date Army, Depot Maintenance - Other	0 -		March 1996		C. Line No. 97-M30	C. Line No. Item Description 97-M30 Xerox 4090 Page Printer	on age Printer		D. Activity Identification Red River Army Depot	Č.
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Xerox 4090 Page Printer								0.475	0.475	
TOTAL							_		0.475	

The current equipment has reached the end of its life cycle. It is expensive to maintain and parts availability is a problem. Red River is the Theater Readiness Monitoring Facility for the Army. goods, etc. In addition, they operate a field printing plant. In order to accomplish their mission, it is imperative that the destination of these war fighting and readiness commodities are The depot operates a supply depot where they store, received, ship, issue, perform maintenance, and dispose of ammunition, missiles, armaments, combat vehicles, and household shipped, stored, and maintained accurately. There is absolutely no room for error because the depot needs to deploy equipment instantaneously.

The introduction of bar code technology has proven to greatly enhance the accuracy and quality of the shipping and receipt document process. The Xerox 4090 Page Printer has the capabilities to support bar code technology (used to print issue receipt and release documents for the depot). Since the current process printer was installed, other subordinate processing systems have been developed and fielded which require the use of the Xerox printer. Mission requirements exceed the printing capabilities of the current system, thus, not allowing full advantage of the bar code technology for shipment and receipt of numerous items repaired, warehoused, or transported by Red River. It is crucial that the Xerox printer be made available to take advantage of other technological advances and overcome reductions in the work force. Timeframes for document processing are strict and inability to print shipping documents has a serious effect on Red River's production.

Economic Analysis is completed. The benefit to investment ratio is .35 and payback period is 13 years.

	J	Captal Budget Category: Equipment - Replacement (\$ in Millons)	Category: Equipm (\$ in Millions)	uipment - Rei	Captal Budget Category: Equipment - Replacement (\$ in Millions)				FY 1997 Budget Submissioin	mission at Submissioin
B. Component/Business Area/Date Army, Denot Maintenance - Other	9 =		March 1991		C. Line No. 97-M31	C. Line No. Item Description 97-M31 Page Printing System	on System		D. Activity Identification Red River Army Depot	ntification / Depot
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Page Printing System							-	0.415	0.415	
					inining of relative Books		•		4.7	

The current high-speed system is responsible for printing 86% of all depot computer reports on a production time basis. Equipment was operational in 1990 and has been printing 2.1 million pages per month, every month, 80% in duplex mode. The normal economic life cycle of five years will be exceeded in 1996. The high rate of production is causing frequent breakdowns which necessitate expensive maintenance and unacceptable down time.

impact if not funded is that management report production schedules cannot be met. In addition, reports must be produced by other means which delays production. Due to the age of current printer, maintenance costs continue to escalate, repair parts are scare, and depot is forced to use less economical manual processes.

Economic Analysis is completed. The benefit to investment ratio is .47; net present value of benefits is \$.237K; and, payback period is 9.9 years.

	BUSI	INESS AREA aptal Budget	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Productivity	STMENT JU: ulpment - Prc	STIFICATION	:			A. Budget Submission FY 1997 Budget Submission	mission t Submission	
			(\$ in Million	ons)							
B. Component/Business Area/Date					C. Line No.	Item Description	nc		D. Activity Identification	tification	
Army, Depot Maintenance - Other			March 1996		97-M9	Production Assembly Cell	sembly Cell		Corpus Christi Army Depot	Army Depot	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Production Assembly Cell											
Shot Peening Operation							_	1.300			
Microplasma Pulsating Welder							_	0.350			
Installation							-	0.177			
Miscellaneous							_	0.247	0.247		
TOTAL							4		2.074		

requirements for the T700. Presently, the depot works overtime in order to complete the metal build-up requirements. In addition, Corpus Christi contracts out shot peening for various Corpus Christi works on the T700 turbo-shaft engines and transmissions. At this time, the depot does not have the capability to accomplish all of the shot peening or metal build-up end transmission components, including rotor shaft, gear box assembly, pitch control swashplate, spindle subassembly, and main rotor blade caps, flanges, and hubs.

to meet both the metal build-up requirements of the T700 engines and critical components, such as the compressor labyrinth seal, rotary compressor seal, and the inner balance piston seal. The shot peening and welding operations are an integral component of the production assembly process. The welding operation requires selective workload scheduling in order

Project adds automated robotics for the shot peening operation which reduces loading and shot peening process times by 22%. The controls provide part contouring capabilities, process repeatability, and flexibility to process different types of damaged aircraft engine components. Provides capacity to process parts in-house which are now contracted to outside vendors (average 2,200 parts contracted). Project also procures a new microplasma pulsating welder to include metal build-up technologies to repair compressor seals. his equipment reduces cycle time and eliminates overtime (average 1,300 hours per year) to meet current and future workload.

Furthermore, they will continue to experience long-cycle times for repairing T700 engine components which in turn, reduces depot responsiveness in force projection scenarios If project is not funded, the depot will continue to work overtime in order to complete metal build-up requirements. In addition, depot will continue to contract work to vendors. due to additional rework and process routing delays in the existing manufacturing process.) The shot peening operations improve plate bonding properties and provides stress relief benefits. These are critical characteristics required for treatment of "Flight Safety Parts" for rotary wing aircraft systems, including helicopter airframe, turbo-shaft engines, transmissions, blades, and other aircraft systems.

Economic analysis is completed. Benefit to Investment Ratio is 4.21; Net Present Value of Savings is \$5.834M; and, payback period is 2.9 years.

	J	SinESS AREA CAPITAL INVESTMENT JOSTIFICATION (Captal Budget Category: Equipment - Productivity (\$ in Millions)	Category: Equipn (\$ in Millions)	ESIMENI JU quipment - Pri ons)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Productivity (\$ in Millions)				A. Budget Submission FY 1997 Budget Submission
B. Component/Business Area/Date Army, Depot Maintenance - Other	0 1		March 1996		C. Line No. 97-M10	C. Line No. Item Description 97-M10 Indoor Radar Tea	Item Description Indoor Radar Test Site Equipment	ment	D. Activity Identification Tobyhanna Army Depot
		FY 95			FY 96			FY97	
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost
Indoor Radar Test Site Equipment					2.067	2.067			
IATOT				•		2 067			

electronic shop operations. High productivity losses are encountered during handling and relocation to and from the sites, especially during inclement weather. Outside ranges are shut down This equipment provides the depot with the most reliable, effective and efficient radar testing and antenna analysis system necessary to support mission requirements. Currently, the testing of the radar workload items is performed at two outside locations at the depot; the antenna pattern range and radar test site. These sites are 3000 to 6000 feet from the maintenance and for safety reasons during inclement weather. The planned indoor radar test range is vital in providing the capability required to support the ongoing progression of state-of-the-art mprovements and effectively support the radar workload requirements in today's competitive market.

To accomplish the plan for the indoor radar test range, an economic analysis was completed. The equipment cost is \$2,067,200 with a delivery date of December 1997. The economic analysis reflects a savings to investment ratio of 1.06 and payback in 7.65 years. If the project is not approved, Tobyhanna Army Depot (TOAD) will not be able to support new state-of-the-art antenna systems. Their ability to respond to mobility and rapid deployment requirements will be diminished.

	Cap	tal Budget Ca	Captal Budget Category: Equipment - Productivity (\$ in Millions)	ment - Produ	ctivity				FY 1997 Budget Submission	et Submission	
B. Component/Business Area/Date Army, Depot Maintenance - Other			March 1996		C. Line No. 97-M24	Item Description Computer Nume	Item Description Computer Numerical Control Punch Press	Punch Press	D. Activity Identification Tobyhanna Army Depot	ntification ny Depot	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Computer Numerical Control Punch Press								0.615	0.615		
Currently, the facility performs punch press operations to shape metal sheets used for electronic cabinets and metal boxes. It is a very time consuming process and a bottleneck to production activities. The CNC Punch Press eliminates the production bottleneck and reduces manufacturing costs. In addition, this press has a higher output (cuts more met at one time), costs less per part, and maintenance costs are reduced.	operations to s ress eliminates mance costs ar	hape metal she the production reformed to reduced.	neets used for ele	ectronic cabine reduces man	ets and metal be	oxes. It is a ver	y time consum iis press has a	ing process an higher output (electronic cabinets and metal boxes. It is a very time consuming process and a bottleneck id reduces manufacturing costs. In addition, this press has a higher output (cuts more metal sheets	sheets	
Economic Analysis is completed. The benefit to mydstring the factor of the present value of savings is 4:4004, and, paydack period is 7.2 years.			יים לופפפון		6. 4. 4001, and	י שמסממא שמומי	, y y y y y y y y y y y y y y y y y y y				

A. Budget Submission FY 1997 Budget Submission D. Activity Identification Corpus Christi Army Depot Daint Othin C. Line No. Item Description BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Productivity (\$ in Millions) Component/Business Area/Date

					ofety and
Corpus Christi Army Depot					Occupational Sa
Corpus Chrisi		Total Cost			defined by the
	FY97	Unit Cost			mufacienic as
Paint Stripper		Quantity			pho pinenonio
Aircraft Laser Paint Stripper		Total Cost	3.244	3.244	etrinner ie ner
97-M25	FY 96	Unit Cost	3.244		The chamical
		Quantity	_	-	Poor seion o
March 1996		Total Cost			and allowed or
	FY 95	Unit Cost			Citable - Land
		Quantity			character and
Army, Depot Maintenance - Other		Element of Cost	Aircraft Laser Paint Stripper	TOTAL	The observational estimates and an instantial and the chamical estimates and mulanonic as defined by the Occupational Safaty and
Army			Aircra		

o remove paint from composite surfaces. Laser stripping also eliminates the need to wear pressurized breathing systems and having devices installed on the air exhaust systems to capture lealth Act. The blast causes excessive damage to composite surfaces, resulting in unnecessary and unacceptable pitting on the substrate surfaces. The new laser stripper eliminates the ework of the composite repair facility resulting in decreased per unit cost to the customer. It also complies with Environmental Protection Agency and safety requirements for personnel he hazardous chemicals. Laser technology reduces the hazardous emissions into the air, water, and landfills by at least 90%. currently, a chemical stripper (metnylene chioride) and a plastic media blast are being used. The chemical surpper

he Occupational Safety and Health Act and the Environmental Protection Agency are in the process of tightening controls pertaining to methylene chloride paint stripping and the amounts of hazardous reduces the need for hazardous waste management areas. In addition, the depot will be able to meet rising production schedules on composite aircraft and meet current and future environmental laws that pose a threat of monetary fines for noncompliance. This project eliminates large volumes of hazardous air pollutants and 23,000 pounds of methylene chloride each year. Furthermore, The stripper eliminates expensive rework in the composite repair facility, cutting cost to customers. It removes the carcinogenic and mutagenic agents from the working atmosphere and waste being released into the atmosphere and landfills.

nazardous chemical strippers and by-products that need an outside contractor to remove the waste. Personnel will be required to wear bulky and restrictive breathing systems in the stripping bays. mpact if not funded is that the paint stripping process will not meet the rising production schedules of composite structures. Costs will escalate to pay for the monitoring and capturing of Overhead costs will drive up customer costs due to the rework in the composite repair facility.

Economic Analysis is completed. The benefit to investment ratio is 1.03; net present value of savings is \$.085K; and, payback period is 8.1 years.

	BUSI	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Productivity (\$ in Millions)	Category: Equi	SSTMENT JUS uipment - Pro ons)	STIFICATION				A. Budget Submission FY 1997 Budget Submission	ion bmission	
B. Component/Business Area/Date Army, Depot Maintenance - Other			March 1996		C. Line No. 97-M26	C. Line No. Item Description 97-M26 Electronic Van R	Item Description Electronic Van Refurbishment		D. Activity Identification Tobyhanna Army Depot	ation	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Electronic Van Refurbishment								0.875	0.875		
TOTAL							7		0.875		

ocation and the structural racks are removed. The vans are moved outside to a waiting area where they are scheduled for sanding and blasting. They are then moved into a building where they are for aisle traffic of this size or volume. Next, the vans are painted, cured, and rotated in order to paint the other half. Once again, the vans are moved to another area where they are rotated in order versanded and prepared for painting. When the vans are painted, they are moved to another building (existing paint booth is not large enough for the vans). In addition, the building is not designed are used to perform the same functions. The electronic vans are brought into one building and the electronic modules and wiring harnesses are removed. Then, the vans are moved to another The current facility performs refurbishment of electronic vans, but it was not designed to handle the size of current vans or the volume of work. Currently, three buildings and often parking lots, to hand paint the areas that are inaccessible in the paint booth. The booths are then moved to an area where the racks are reassembled, electronics installed, and the whole system is tested.

by reducing the number of times the vans are handled. Once the electronics are removed, the van is moved to a central location, within the same building, where all the sanding, prep and painting steps occur. Therefore, most of the current handling is eliminated. In addition, the only remaining handling occurs with the overhead crane rather than trucking the items around under the care of This project is to be installed in an existing building with minor modifications. The refurbishment will improve efficiency and maintain ability to perform electronic van maintenance as well as eliminate safety hazards. With this new equipment, Tobyhanna will meet anticipated workloads and be able to accommodate common van sizes. Savings occur with the new system several material movers.

Impact if not funded is that many efficiencies will not be realized and new maintenance and repair missions will be difficult to fulfill due to size and capacity restraints. Customer costs as well as maintenance costs will increase. Analysis is completed. The benefit to investment ratio is 3.1; net present value of savings is \$2.249M; and, payback period is 5.4 years.

	Captal Bt	NESS AREA I	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Environmental Compliance (\$ in Millions)	STMENT JUR ! - Environme ns)	STIFICATION intal Compliar	901			A. Budget Submission FY 1997 Budget Submission	
B. Component/Business Area/Date Army, Depot Maintenance - Other	et e		March 1996		C. Line No. 97-M11	C. Line No. Item Description 97-M11 Waste Minimization Cap Acct	on ation Cap Acc		D. Activity Identification All Depots	
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Waste Minimization Cap Acct		0.400	0.400	-	1.554	1.554				-
TOTAL			0.400	-		1.554				

and Health Administration, Environmental Protection Agency, and State laws. This new equipment will increase reliability and productivity in many cases, enabling the depots to be bassed in FY 1992 and rewritten in FY 1993 stated that installations had to budget one half of one percent of their FY 1988 maintenance revenue for this program. This represents Waste Minimization Capitalization Account (WMCA) criteria is to reduce the generation of solid or hazardous materials and pay for itself over its useful life. Public Laws(101,190) various Waste Minimization Capital Account equipment required to maintain and meet environmental standards as directed by Federal and State multi-media environmental regulations. These are to promote environmentally safe and cost effective systems to comply with new regulatory requirements. Most address safety, Occupational Safety nore effective. Examples of the equipment to be purchased include painting, pre-wash, and water treatment systems well as air purifying units. If this equipment is not purchased by the end of FY 1996, we could be in violation of and out of compliance with Federal and State regulatory requirements and thus be subject to heavy fines.

Captal Budget Category: Equipment - Envir (\$ in Millions) March 1996 FY 95 Quantity Unit Cost Quan	A. Budget Submission onmental Compliance FY 1997 Budget Submission	C. Line No. Item Description 97-M12 Fume/Dust Collection System Sierra Army Depot	FY 96 FY 97	tity Unit Cost Total Cost Quantity Unit Cost Total Cost	0.200 0.200
Budget Category: Equipment - Environme (\$ in Millions) March 1996 FY 95 Unit Cost Total Cost Quantity	FICATION Il Compliance	o.	FY 96	Total Cost	-
March 198 FY 95 Unit Cost Total Co	NVESTMENT JUSTIF nent - Environmenta IIIIons)			Quantity	
	IUSINESS AREA CAPITAL II II Budget Category: Equipn (\$ in M	March 199	FY 95	Unit Cost	

trinitrotoluene, dinitrotoluene, nitrocellulose, paint thinners, denatured alcohol, degreaser, paste ink, spray ink, and blancol. The system should be in place by the end of the fiscal year 1998. of both dust and fumes. Other chemicals and dusts will be destroyed with this same system. Chemicals associated with work performed at Sierra ammunition maintenance facilities are concerning chemical dusts associated with explosives. Specifications had to be written and engineers from Checkerboard engineering came to Sierra to solve the problem of getting rid The use of respirators was a temporary fix at Sierra Army Depot. By 1998, both OSHA and the Environmental Protection Agency (EPA) will be producing more stringent regulations The Army was required to comply with Occupational, Safety and Health Agency's (OSHA) regulation to reduce the workers' exposure to nitroglycerin 0.1 MG/M3 by July 1, 1991.

f this fume and dust extraction system is not in place by the end of fiscal year 1998, there will not be an adequate system for removing fumes and dust from the workplace, and there will be non-compliance with OSHA regulations which subjects the depot to heavy fines.

This project is exempt from an economic analysis; it is a class 1 environmental project.

	BUSINE	SS AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	STMENT JUS	TIFICATION				A. Budget Submission	
	Captal	Budget Ca	Captal Budget Category: ADPE	E& Telecommunications	nunications				EV 4007 Budget Detimate	
				lis)					ו ו ו ממו המחלבו במוווש	
B. Component/Business Area/Date					C. Line No.	C. Line No. Item Description	on		D. Activity Identification	
Army, Depot Maintenance - Other			March 1996		97-M17	Sperry 5000 S	Sperry 5000 Systems Replacement	cement	Various Depots	
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Sperry 5000 Systems Replacemen										
Super-mini (Anniston AD)				-	0.400	0.400				
Super-mini (Tobyhanna AD)				_	0.601	0.601				
Super-mini (Corpus Christi AD)				2	0.400	0.800				
Super-mini (Letterkenny AD)	•			2	0.400	0.800				
Super-mini (Red River AD)				က	0.400	1.200				
Super-mini (Sierra AD)				-	0.400	0.400				
									-	
TOTAL				10		4.201				

Base operations systems are being run on obsolete Central Processing Units (CPUs) and saturated 5000's with insufficient disk storage and memory. The new super-mini computers process applications more expeditiously and efficiently. Immediate savings in hardware maintenance and software licensing occurs. In addition, the new super-mini could be upgraded to satisfy future requirements.

The replacement process began in fiscal year 1994 and continues through fiscal year 1996. Economic Analysis are available for the depots with savings investment ratios ranging from 2.0 to 3.0 for the super-mini's.

mandated applications will be severely impaired. Depots will be unable to load new versions of these mandated applications. Hardware maintenance and software licensing costs will continue to rise. The impact if funding is not provided is processing of applications on saturated Sperrys will continue to be backlogged, eventually operations could come to a virtual standstill. The ability to process

State Component/Business Area/Date C. Line No. Item Description D. Activity Identification D.		BUS	INESS AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: ADPE & Telecommunications	STMENT JUS	STIFICATION				A. Budget Submission FY 1997 Budget Estimate	
C. Line No. Item Description Amarch 1996 97-M18 Network File Servers				(\$ in Millio	ns)						
Channily Unit Cost Total Cost Quantity Unit Cost Total Cost PY 97 Quantity Unit Cost 0.034 0.068 Unit Cost 2 0.020 0.040 Unit Cost 1 0.107 0.107 5 0.215	B. Component/Business Area/Date Army, Depot Maintenance - Other	φ -		March 1996		C. Line No. 97-M18	Item Description	in ervers		D. Activity Identification Tobyhanna Army Depot	
Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity ftware 2 0.034 0.068 0.040 1 0.107 0.107 0.107 TOTAL 5 0.215			FY 95			FY 96			FY 97		
ftware 2 0.034 1 0.107 1 TOTAL 5	Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost		
ffware 2 0.020 1 0.107 TOTAL 5	Network File Servers				2	0.034					
TOTAL 5	Operating System Software				2						
io.	Application Software				_	0.107					
ıo											
ıo											
LO.											
22											
	TOTAL				5		0.215				

must transport the data on a floppy disk. The file server will be a central repository of data that can be shared by all those connected to the network. Replacement of individual PC's with network file servers will tie the existing and planned computers together to share common resources such as software, databases, and printing facilities. The transfer and distribution of mail and files will be facilitated, resulting In the current process applications and data that should be shared by groups are located on each individual's machine. in the current process. If someone needs to share data with someone else, they in improved communications and greater productivity. Tobyhanna Army Depot (TOAD) Directorate of Maintenance is the activity receiving the equipment. Estimated completion date is January 1996.

An economic analysis exemption has been granted. A cost analysis and comparison of alternatives was performed. Without the power of the file servers the directorate has to continue to rely on redundant single level applications, and will be unable to take advantage of the efficiencies and productivity of networking. Continuing to use the present system will eventually result in the inability to perform essential mission related tasks as a consequence of reduced manpower without an offsetting increase in productivity.

	BUS	INESS AREA otal Budget Co	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: ADPE & Telecommunications (\$ in Millions)	ESTMENT JUSTIFICATION E & Telecommunications ons)	TIFICATION				A. Budget Submission FY 1997 Budget Estimate	
B. Component/Business Area/Date Army. Depot Maintenance - Other	9 5		March 1996		C. Line No. 97-M19	C. Line No. Item Description 97-M19 Personal Computers	on puters		D. Activity Identification Tobyhanna Army Depot	
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Personal Computers				16	0.003	0.040				
				_	0.010					
Communications Hardware				_	0.010	0.010				
System Software					0.015					
Application Software	AN- 1141			_	0.054	0.054				
TOTAL				20		0.129				
The second secon										

Currently, obsolete 286 PC's are being utilized. These PC's can only run the older versions of application software. The machines break down frequently, and are not economical to repair. Replacement 486's have the ability to run the more advanced software applications, such as Windows operating systems as well as the latest versions of productivity enhancing application software. Acquisition of replacement nachines will bring Tobyhanna Army Depot (TOAD) into compliance with requirements for standardization of hardware, software, and communications.

An Economic Analysis exemption has been granted. Cursory cost analysis and comparison of alternatives has been performed.

Without the power of the 486 personal computer replacements the depot is unable to take advantage of the efficiencies and productivity enhancing features of the newer application software. Current 286's cannot be used for Executive Information System (EIS) and other mandated systems which are on the way. TOAD will be unable to offset reduced manpower with increases in productivity.

and technical publications personnel. It provides the hardware necessary to automate the development of manufacturing engineering process plans that will be downloaded to the technicians The Production Engineering Division produces drawnings bound a computer Assisted Engineering (CAE) system. The content system is the production of its useful life. It is anticipated that the expanded CAE system increases accessibility of drawing data to the manufacturing engineers, numerical control programmers, on the shop floor. This especially benefits the fabrication side of the Tobyhanna Army Depot (TOAD) enterprise which at times approximates nearly 50% of its workload.

An economic analysis has been performed. Savings to Investment ratio is 2.71. Present value of savings is \$2,476 and the payback period is approximately three years.

Annual savings is estimated at \$309,000.

to meet the demands of its customers for fast turnaround of fabrication projects such as communications shelters which are often requested on short notice in response to various world crises. f not funded is Tobyhanna Army Depot will be unable to expand automation of the manufacturing engineering process plans to the shop floor. If TOAD is unable to replace obsolete CAE equipment, scarce manpower will be wasted using obsolete CAE equipment, adding to costs. Obsolete CAE equipment also delays completion of projects. TOAD will be unable

	Cap	iness area otal Budget Ca	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: ADPE & Telecommunications (\$ in Millions)	E & Telecomr ons)	nunications				FY 1997 Budget Submission	nission
B. Component/Business Area/Date					C. Line No.	C. Line No. Item Description	n.		D. Activity Identification	uo
Army, Depot Maintenance - Other			March 1996		97-M21	Fiber Optic LAN	z		Corpus Christi Army Depot	Depot
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Fiber Optic LAN										
Phase I, II, III, and IV				_	7.760	7.760				
Phase V and VI							-	1.286	1.286	
									-	
TOTAL				_		7.760	-		1.286	

with other commands. The operational effectiveness of the current LAN is not in accordance with current Army regulations. The anticipated benefits are to rehabilitate and extend the existing LAN through ntegrated Services Digital Network (ISDN) Standards. This initiative will support Department of Army, Major Command installation architecture requirements. The projected start date is fiscal year 1996 The current broadband Local Area Network (LAN) is a proprietary SYTEC 2000 system. This type of system will not provide future enhancement and integrated support services to effectively interface vith an anticipated completion date of fiscal year 1999.

requirement is critical in the integration of automation services to the functional (logistical and maintenance) areas throughout the depot. The activities to receive the equipment and system are all depot functi n support of logistics and maintenance operations. The Fiber Optic Network is required to implement the Corporate Information Management (CIM) Defense Depot Maintenance Information System (DDMIS). If this multi-year project is not funded, the Command will be unable to support Department of Defense and Department of Army's mandated Installation Information Transfer System (IITS) policy. Also, this

	BUSI	NESS AREA tal Budget Ca	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: ADPE & Telecommunications (\$ in Millions)	STMENT JUSTIFICATION 8. Telecommunications ns)	TIFICATION				A. Budget Submission FY 1997 Budget Submission	
B. Component/Business Area/Date Army, Depot Maintenance - Other			March 1996		C. Line No. 97-M23		Item Description Depot Maintenance System (DMS)		D. Activity Identification Various Depots	
		FY 95			FY 96			FY 97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Depot Maintenance System (DMS										
Hardware	-	2.017	2.017	-	4.364	4.364	-	4.140	4.140	
TOTAL	1		2.017	-		4.364	-		4.140	

Narrative Justification: The funds are to support the fielding of the DMS suite of migration applications being developed by the Joint Logistics Systems Center (JLSC) for Army maintenance depots. During the ecent budget review, the responsibility for acquisition of hardware for Fiscal Years 1995-1997 was transferred from the JLSC to the Military Services.

These applications address major end Item management, commodities repair, and specialized support (tool management, hazardous material management, enterprise information management, and interservic The Depot Maintenance System (DMS) Program is using an evolutionary program strategy to deliver the enterprise functionality to support improved business processes required for effective depot maintenan Benefits will be realized in two primary areas: business performance and information systems costs. Business performance will be enhanced through the process improvements delivered by DMS applications DMS will provide the Services a revolutionary step forward in functional capability and automation, including a systems infrastructure upon which tomake significant strides in business process improvement. operations across the Department of Defense. This functionality will be provided through the development of a suite of applications with critical interfaces to legacy and other major systems. workload tracking). The objective is to provide to the user a suite of service specific migration applilications with basic interfaces to the legacy environment. to support the Depot Maintenance Improved Functional Baseline (IFB). These improvements include:

Reducing cycle times to make more assets available to support the war fighter. Providing accurate delivery schedules to support mission planning.
Reducing expenses and inventory to lower the cost to the war fighter. Improving readiness, sustainment, and inteoperability for the war fighter. Reducing labor through better resource and work planning.
Reducing overhead through elimination of non value-added activity. Improving schedule performance through more complete asset visibility.

Once implementation is complete and legacy applicatoins are reduced, ADP costs will come down markedly.

Without this investment, needed improvements to the depot/shipyard business process and infrastructure will not be achieved. Implementing enhanced repair and overhaul capabilities is a critical contribution toward improving mission readiness in a downsizing environment. As the DoD weaponsystems continue to age, reductions to the workforce continue and the numbe of depots/shipyards are reduced, efficient and effective organic repair capability is of increasingly growing importance to DoD in maintaining weapon systems combat readiness. In order to meet this demand, the depot/shipyard community needs to dramatically strengthen its business processes and the associated information infrastructure (hardware).

	BUS	SINESS AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	STMENT JU	STIFICATION				A. Budget Submission	ission	
	S	ptal Budget C	Captal Budget Category: ADPE & Telecommunications (\$ in Millions)	E & Telecom	munications				FY 1997 Budget Submission	Submission	
B. Component/Business Area/Date Army, Depot Maintenance - Other	e =		March 1996		C. Line No. 97-M27	C. Line No. Item Description 97-M27 Engineer PC CAI	Item Description Engineer PC CADD Upgrade		D. Activity Identification Red River Army Depot	fication Depot	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Engineer PC CADD Upgrade							-	0.161	0.161		
TOTAL							~		0.161		

large-scale warehousing of repair parts, storage and demilitarization of ammunition. The obsolete, slow CADD systems do not provide the support required as the Army right-sizes the workforce The current system provides engineering support to a large depot with missions varying from maintenance of numerous defense related items to manufacturing of rubber tank treads. and inventory. This initiative will move the engineering computer aided design and drafting functions away from the current old, large, high maintenance UNIX workstations. Moving the engineering design capability to the user desk top enhances the drafting and design functions; allows Computer Assisting Engineering (CAE) to all engineers; and provides standardization throughout the engineering community for the sharing of information without having to continuously re-enter technical information used by several different departments or functions. The existing kerosene based toner that must be disposed of as a hazardous waste. The proposed plotter is a thermal imaging type and does not use toner which reduces hazardouswaste.

mprove CADD equipment and network by providing faster design and plotting capabilities. It also provides one network for design, plotting, and office automation. The current system does not depot mission area. The equipment is off-the-shelf, meets the Joint Computer Aided Logistic System (JCALS) and other industry standards, will operate in the open-systems environment and allow ready interchange between the engineering, design, and shop floor staffs. The new technology offers a much more reliable multi-dimensional effort that can be accessed throughout the The proposed PC CADD upgrade is also more energy efficient then the status quo equipment. This project takes advantage of technology advancement to lower maintenance costs, nterface with the Integrated Services Digital Network (ISDN), and provides the capability of information interchanges throughout the Defense manufacturing environment.

Economic Analysis is completed. The benefit to investment ratio is 1.68; net present value of benefits is \$.107K; and, payback period is 2.7 years.

	BUSI	8USINESS AREA CAPITAL INVE Captal Budget Category: ADPI (\$ in Millic	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: ADPE & Telecommunications (\$ in Millions)	ESTMENT JUSTIFICATION E & Telecommunications ons)	STIFICATION				A. Budget Submission FY 1997 Budget Submission	omission et Submission	
B. Component/Business Area/Date Army, Depot Maintenance - Other	g 1		March 1996		C. Line No. 97-M28	C. Line No. Item Description 97-M28 Encrypted Trunk	Item Description Encrypted Trunk Radio Network)rk	D. Activity Identification Anniston Army Depot	ntification Depot	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Encrypted Trunk Radio Network							_	1.544	1.544		
TOTAL							-		1.544		

he existing UHF non-tactical radio equipment with digital, trunking radios, operating as a total depot trunked radio is ten years old. This project upgrades and replaces depot-wide non-tactical radios that are at or exceeding the life cycle limit. This network project provides the basic trunking system and network infrastructure, portable and mobile radios for highly critical emergency users plus acilities engineering personnel. In addition, the trunking project reduces the man-hours and repair costs associated with maintaining the existing equipment. However, the workload increase s associated with new missions at Anniston, primarily in the Chemical Stockpile Disposal Program (CSDP)

Chemical Accident/Incident Response Actions (CAIRA) Service Response Force Exercise designed to test the depot's emergency preparedness and readiness capabilities. These problems The existing encrypted radio networks have succumbed to more advanced communications equipment and are becoming increasingly susceptible to transmission and equipment failure. The existing radio networks are incompatible and jeopardize the safety and welfare of personnel and property. Moreover, the cost to maintain the status quo is steadily increasing due to requent equipment failures and breakdowns. The short-comings of the existing networks, e.g., interference, garbled and distorted messages were evident in May 1993 during the greatly hindered radio communications in the field and rendered one of the critical networks useless. Army Regulation 380-19 requires sensitive radio communication's must be encrypted using the Data Encryption Standard (DES). There are six depot radio networks that use the DES and these networks are not totally compatible. This requires the purchase of additional radio equipment, thus, increasing confusion during emergencies and increases procurement, installation, and naintenance costs. As the age of the current radio equipment increases, the potential for the loss of life and property also increases.

of radio users for any specified emergency. In addition, the new standardized equipment reduces maintenance and labor costs. This network eliminates the need for over 160 mobile the state-of-the-art radio communications equipment. Allows the reutilization of existing radios to replace radios in operation for over eight years on non-critical networks where the DES encryption is not required. Emergency procedures and communications will be greatly improved. The trunking network provides an automated systems controller that enables the adios, through the use of hand-held portable radios. This allows for communications among individuals as well as vehicles. Economic Analysis is completed. The benefit to investment ratio is 1.02; net present value of savings is \$.026K; and, payback period is 7.5 years. Although the BIR is 1.02, there are some facts to consider. The current radios have exceeded their life cycle replacement life of ten years. If the encrypted trunked radio network is not fielded in FY 96, the depot must begin to replace the existing radios. The current dollar value to replace existing radios is \$1.5M. If we do this, we will not be taking advantage of new technology with lower operational costs. Instead, we will be providing the depot radio users with old technology with incompatibilities and problems mentioned above.

	BUS	INESS AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	STMENT JUS	STIFICATION				A. Budget Submission	mission	
	Cap	Captal Budget Category: ADP	ategory: ADPE	E & Telecommunications	nunications				FY 1997 Budget Submission	et Submission	
			(\$ in Millions)	(su							
B. Component/Business Area/Date	0.1		March 1006		C. Line No.	C. Line No. Item Description Ox. M29	on System		D. Activity Identification Corpus Christi Army Denot	ntification Army Denot	
Amy, Deportmentalise - Otto		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Laser Digitizing System								0.530	0.530		
TOTAL							-		0.530		

ue to reduced machine setup time and programming time to complete templates. In addition, it increases capability to perform component reverse engineering and provides new capability ncreases accuracy of manufacturing parts using existing NC machine tools and equipment. It shortens design-to-manufacture lead times by as much as 70 percent (engineering estimate) The system averages three breakdowns per month which causes backlog of work and work stoppage. It requires forty-five minutes to set up and three hours to create a template The current system converts this information into a Computer Aided Design (CAD) database and provides a programmer the capability to edit the new data file on a work station. The programmer then produces Numeric Control (NC) programming paper tapes which are then used to manufacture or rework the damaged aircraft parts. This system is worn and contains old technology. It has become unreliable and requires a contractual operational maintenance service to perform maintenance which is costly and time consuming. density three dimension (3D) images and provides exact digitizing and duplication of complex shapes. It also improves the process and accuracy of dimensional drawing and he current plotter/digitizing system is used to scan non-dimensioned parts which are damaged and require the manufacturing of new parts from raw materials or rework. of the part (average based on actual workload). It is not cost effective to upgrade the system. The new laser plotting/digitizing system produces high resolution and high or part prototyping and NC tool path. f not funded there will be a continual backlog and work stoppage as a result of worn, obsolete technology and constant maintenance. This system will continue to become isolated from the surrent manufacturing process and the automated and telecommunication network currently in place at this installation nd will result in the failure of the depot to rework or manufacture lamaged non-dimensional aircraft parts. This project supports the Armys' long range plan by performing dimensional operations in a third of the time it takes to do the work now on an obsolete WYSE technology digitizer. New aircraft will have highly complex parts and components that need to be made by the NC programmers. The new machine is capable of making machine language and loading this language to an VC machine via electronic network.

Economic Analysis is completed. The benefit to investment ratio is 1.33; net present value of savings is \$.156K; and, payback period is 6.6 years.

	BUS	BUSINESS AREA CAPITAL IN Captal Budget Category (\$ in Mil	IESS AREA CAPITAL INVESTMENT JUSTIFICA Captal Budget Category: Minor Construction (\$ in Millions)	VESTMENT JUSTIFICATION 7: Minor Construction Ilions)	riFiCATION	ı			A. Budget Submission	ission	
B. Component/Business Area/Date					C. Line No.	Item Description	-		D. Activity Identification	Tcation	
Army, Depot Maintenance - Other			March 1996		97-M22	Minor Construction Projects	tion Projects				
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Minor Construction Projects											
Anniston Army Depot (ANAD)	-	0.288	0.288	+	0.967	0.967	-	1.790	1.790		
Blue Grass Army Depot (BGAD)	-	0.597	0.597				-	0.340	0.340		
Corpus Christi Army Depot (CCAD)	-	0.609	0.609	-	0.748	0.748	_	1.130	1.130		
Letterkenny Army Depot (LEAD)	_	0.755	0.755	-	0.313	0.313	-	0.340	0.340		
Red River Army Depot (RRAD)	-	0.300	0.300	-	1.009	1.009	-	2.040	2.040		
Seneca Army Depot (SEAD)	_	0.843	0.843	-	0.536	0.536					
Sierra Army Depot (SIAD)	_	1.480	1.480	-	1.767	1.767	-	2.260	2.260		
Tobyhanna Army Depot (TYAD)	-	0.330	0.330	-	1.051	1.051	-	2.720	2.720	-	
Tooele Army Depot (TEAD)	-	0.035	0.035	-	0.609	0.609	-	0.680	0.680		
TOTAL	6		5.237	80		7.000	80		11.300		

ammo storage facility, electrical substation for hydraulic unit, electrical service upgrade for composite shop, and lightning protection for ammunition docks. Ammunition depot operations is an enduring Environmental Protection Agency (EPA), and security violations. Examples of construction and alteration projects are: Construct building at Industrial Waste Treatment Plant, construct general construction and alteration projects are required to promote cost effectiveness and comply with regulatory requirements that address safety, Occupational Safety and Health Agency (OSHA), The above figures represent construction and alteration work costing under \$300,000. Projects costing over \$300,000 are included in our Military Construction, Army (MCA) Program. These mission at Tooele Army Depot.

Failure to receive this funding could result in the following:

a. Reduction in mission capacity.
 b. Failure to meet present and future workload requirements.
 c. Inability to comply with environmental requirements.

	BUSI Captal Budge	BUSINESS AREA CAPITAL INV Sudget Category: Reliability, Mi	CAPITAL INVESTI Reliability, Mainta (\$ in Millions)	ESTMENT JUSTIFICATION aintainability & Supportablions)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (\$ in Millions)	y Mod			A. Budget Submission FY 1997 Budget Submission	nission I Submission	
B. Component/Business Area/Date					C. Line No.	Item Description	noi		D. Activity Identification	tification	
Army, Depot Maintenance - Other	•		March 1996			AH-64 TADS	AH-64 TADS Azimuth Actuator	l	US Army Aviatic	US Army Aviation and Troop Command	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
AH-64 TADS Azimuth Actuator									1.600		
CIAL failure data indicates the aximuth drive assembly fails at an average of 3.6 years of field life. Corrosion and gear wear are evident in virtually all failures of this assembly. The majority of fielded	uith drive acce	mbly fails at a	n average of 3 (S years of field	1 life Corrosior	n and gear we	sar are evident	n virtually all t	ailures of this as	sembly. The majority of fielded	
refut railure data indicates the azimuti direct associato), tans at an avoirage of systems have been in service over 3.6 years resulting in an increased rate of	3.6 years resu	ulting in an incr	eased rate of a	zimuth drive f	azimuth drive failures. This trend will continue without the current modification.	end will contir	ue without the	current modifi	ation.		
This Value Engineering Change Proposal will modify the Target Acquisition Data System (TADS) azimuth drive assembly to prevent water intrusion and premature gear failures as follows: 1) Integrate a shaft seal into the azimuth actuator assembly to prevent water intrusion. 2) Change actuator assembly pinion gear material from 416 stainless steel to 13-8 steel to improve wear characteristics. 3) Decrease height of the anti-backlash element, thereby increasing height (contact area) of drive pinion to improve wear characteristics.	oposal will mor zimuth actuato on gear materi: klash element,	dify the Target r assembly to al from 416 sta thereby incre	Acquisition Dal prevent water ir iinless steel to ' asing height (co	ta System (TA ntrusion. 13-8 steel to ir intact area) of	DS) azimuth dr nprove wear ch drive pinion to	rive assembly naracteristics. improve wear	to prevent water	er intrusion an	d premature gea	r failures as follows:	
SIR	10.00										
						•	·				
4											

Captal Budget Category: Reliability, Maintainability & Supportability Mod (\$ in Millons)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION 3udget Category: Reliability, Maintainability & Supportabil (\$ in Millions)	& Supportabili	Ity Mod			A. buaget Submission	TISSION .
	March 1996	C. Line No. 97-R2	Item Description AH-64 PNVS Az	Item Description AH-64 PNVS Azimuth Actuator	10	D. Activity Identification US Army Aviation and T	D. Activity Identification US Army Aviation and Troop Command
1		FY 96			FY97		
	Total Cost Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	1.600	
~ m	Field failure data indicates the azimuth drive assembly fails at an average of 3.2 years of field life. systems have been in service over 3.2 years resulting in an increased rate of azimuth drive failures	ld life. Corrosic	3.2 years of field life. Corrosion and gear wear are evident in virtual azimuth drive failures. This trend will continue without this change.	ar are evident ue without this	in virtually all change.	1.600 ailures of this as	Corrosion and gear wear are evident in virtually all failures of this assembly. The majority of fielded s. This trend will continue without this change.
This Value Engineering Change Proposal will modify the Primary Nig 1) Integrate face seals on the mounting plate and gear housing. 2) Seal union of components (i.e., motor, tach, brake, and resolver) 3) Increase length of 1.9375 diameter pilot from .188 to .350 thus el	This Value Engineering Change Proposal will modify the Primary Night Vision Sight (PNVS) azimuth drive assembly to prevent water intrusion and premature gear failure as follow 1) Integrate face seals on the mounting plate and gear housing. 2) Seal union of components (i.e., motor, tach, brake, and resolver) with an approved adhesive in place of lock-tite while maintaining mechanical back-up features currently used. 3) Increase length of 1.9375 diameter pilot from .188 to .350 thus eliminating water retention.	azimuth drive a	assembly to pre	event water intr	usion and pre	Sight (PNVS) azimuth drive assembly to prevent water intrusion and premature gear failure as follows: oproved adhesive in place of lock-tite while maintaining mechanical back-up features currently used. water retention.	ure as follows: rently used.

B. Component/Business Area/Date March 1996 C. Line No. Item Description C. Line No. Item Description D. Activity Identification Army, Depot Maintenance - Other FY 95 FY 95 FY 96 FY 97 FY 97 FY 97 Admy Aviation and Troop Command Element of Cost Quantity Unit Cost Total Cost											
March 1996 97-R3 UH-60 Tail Rotor Blade Assembly FY 95 FY 96 FY 96 FY 97 Quantity Unit Cost Quantity Unit Cost Quantity Unit Cost	component/Business Area/Date					C. Line No.	Item Descriptio	u.		D. Activity Identific	cation
Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Cost Total Cost Cost Total Cost Cost Cost Cost Cost Cost Cost Cost	v, Depot Maintenance - Other			March 1996		97-R3	UH-60 Tail Rot	tor Blade Asse	mbly	US Army Aviation	and Troop Command
Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Total Cost Total Total			FY 95			FY 96			FY97		
	Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
0.427	60 Tail Rotor Blade Assembly									0.137	

The water entrapment in the honeycomb core of the outer half of the blade on the tail rotor causes blade imbalance, skin cracking, and separation of the trailing edge skin. As a result, removal of the tail rotor blades (P/N 70101-31000-043, NSN 1615-01-113-8188) is necessary.

Separation of the trailing edge skin to skin bond as a result of pivot bearing retainer disbond allows the retainer to migrate outboard and separate the skin bond.

Modification of the nickel erosion strip to extend 7.5 inches inboard will reduce leading edge polyurethane erosion and will improve the rate of deterioration of the blade erosion protection system.

This initiative will improve the seal configuration, the water drainage path, the migration of the retainer through the skin, the impact tolerance, and the rate of deterioration. A wrap around ply of fiberglass at the trailing edge will reduce the migration damage. The Mean Time Between Repair (MTBR) will increase from 1892 to 2481 hours.

10.00

SIR

J	BUS Captal Budge	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (\$ in Millions)	CAPITAL INVE Reliability, Mai (\$ in Millio	/ESTMENT JUS laintainability & lons)	STIFICATION & Supportabill	ity Mod			A. Budget Submission	nission	
B. Component/Business Area/Date					C. Line No.	C. Line No. Item Description	nc		D. Activity Identification	tification	
Army, Depot Maintenance - Other			March 1996		97-R4	AH-64 Primary	IR Nozzles: F	Rivets to Bolts	US Army Aviation	AH-64 Primary IR Nozzles: Rivets to Bolts US Army Aviation and Troop Command	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
AH-64 Primary IR Nozzles: Rivets									0. 6.43.		
TOTAL									0.543		
This initiative involves changing rivets to bolts on the Secondary Infared (IR) Nozzle, allowing access to the Primary IR Nozzle without the need to remove the aircraft engine. This will eliminate the need for additional personnel support and special equipment to make relatively simple repairs. Total time to repair the nozzle will be reduced from 16 man-hours to approximately 2 man-hours. In addition, the requirement to perform a test flight after engine removal is no longer necessary, which saves an additional hour.	ets to bolts on I special equi efter engine re	the Secondary pment to make emoval is no lo	y Infared (IR) N relatively simp nger necessary	Vozzle, allowiny ole repairs. To y, which saves	g access to that time to reps an additional	e Primary IR Nc air the nozzle w hour.	zzzle without ti	he need to ren from 16 man-l	nove the aircraft hours to approxil	Nozzle, allowing access to the Primary IR Nozzle without the need to remove the aircraft engine. This will eliminate the need ple repairs. Total time to repair the nozzle will be reduced from 16 man-hours to approximately 2 man-hours. In addition, the ary, which saves an additional hour.	tion, the

assembly will be constructed with nut plates and installed forward of the frame assembly. The bolts will be installed through the secondary nozzle and frame assembly, into the doubler containing There are 188 rivets holding the Apache Secondary Exhaust Nozzle to the aircraft frame assembly. This initiative will remove all the rivets and install a bolt in every fourth rivet hole. A doubler

the nut plates. This will allow the Secondary Nozzle to be removed -- without the need to "drill-out" rivets -- by simply removing the bolts.

way to repair the Primary Nozzle is to remove the aircraft engine. Once the engine is removed, the nozzle may then be removed and repaired. After the nozzle and engine are reinstalled, the aircraft is cold, during aircraft starting and shutdown. During military operations, the need to start and shutdown the aircraft numerous times, makes the nozzles more susceptible to cracking. Presently, the only The Primary IR Nozzles, which are installed directly aft of the aircraft engines, are subject to cracking. The cracking is a direct result of the rapid temperature changes, primarily hot to equired to conduct a test flight to ensure the proper installation of the engine.

This modification will be installed on the entire fleet of Apache aircraft. There are two installations per aircraft, one for each engine. The modification would remain on the Longbow aircraft configuration.

10.00

	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	S AREA CA ategory: R (APITAL INVESTME Reliability, Maintains (Dollars in Millions)	STMENT JU intainability ≀ llions)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION I Budget Category: Reliability, Maintainability & Supportability (Dollars in Millions)	J y Mod			A. Budget Submission	omission	
B. Component/Business Area/Date Army, Depot Maintenance - Other		Mar	March 1996		C. Line No. 97-R5	Item Description AH-64 Primary P	Item Description AH-64 Primary Heat Suppresser Materials	ser Materials	D. Activity IdentificationUS Army Aviation and T	D. Activity Identification US Army Aviation and Troop Command	
	FY 95				FY 96			FY97			
Element of Cost	Quantity Unit Cost		Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
AH-64 Primary Heat Suppresser M									0.922		
This modification will change the basic material of the heat suppresser to a more temperature and vibration tolerant material. In addition, it will redesign the current heat suppresser mounting bracket to eliminate the unique left and right hand suppresser assemblies. These changes will be incorporated on new procurement of the heat suppressers. There will be no retrofit.	c material of the he d suppresser asser	at suppress nblies. The	ser to a more	temperature will be incor	e and vibration porated on nev	tolerant materi w procurement	ial. In addition, of the heat sup	it will redesign the	ne current heat will be no retro	suppresser mounting bracket vfit.	t to
Number of aircraft affected: 732 2 suppressers per aircraft											
SIR	6.30										•
									·		

	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	C. Line No. Item Description D. Activity Identification APACH 1998 APACH 1998 D. Activity Identification OF BR APACH Service Activities Books D. Activity Identification	FY 96 FY 96 FY 97	it Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost	1.248	
FY 95 Quantity Unit Cost	Dollars in Millions)	C. Line No.	FY 96	Quantity Unit Cost		
	Captal Budget Category: R ((e)	FY 95	Unit Cost		_

change will be incorporated at depot level through attrition of the servocylinders. In addition, the packaging and handling instructions for the servocylinders will be improved to prevent damage, contamination and actuator corrosion during shipping. Savings will accrue through a reduction in the number of parts which must be procured and stocked, and through a reduction in the number of A protective boot will be installed over the piston rod and upper seal of the servocylinder protecting it from external contaminants and induced damage which can lead to actuator seal leakage. This

maintenance actions.

5.17

732

Number of aircraft affected:

	í										
	Captal Bu	Captal Budget Category: Reliability, N	Reliability, Maintaina (Dollars in Millions)	Budget Category: Reliability, Maintainability & Supportability (Collars in Millions)	Anintainability & Supportability Mod	Mod		,			
B. Component/Business Area/Date	· ·				C. Line No.	C. Line No. Item Description	uo		D. Activity Identification	ntification	:
Army, Depot Maintenance - Other			March 1996		97-R7	T700-GE-7010	T700-GE-701C Stage 1 Turbine Blade	ine Blade	US Army Avia	US Army Aviation and Troop Command	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
T700-GE-701C Stage 1 Turbine BI									0.320		
TOTAL									0.320		

The 7700-GE-701C Engine is a major cost driver for both the AH-64D Apache and the UH-60L BLACK HAWK helicopters. Current 701C engines have a low Mean Time Between Repair (MTBR) of 1100 nours, primarily due to degraded stage 1 turbine performance.

integral part of the "gas generator matched assembly" (NSN 2840-01-319-0957) which is replaced as a unit at field level. This program will design a Mono Crystal N5 alloy stage 1 turbine blade based upon the current CT7-9 N5 commercial blade with leading edge film cooling and optimization of the serpentine turbulator blade cooling circuit. An increase in the MTBR of 150 hours will Advances in commercial turbine blade materials have demonstrated that durability improvements can be achieved in the current DSR 108 design stage 1 turbine blades. The blades are an result with a corresponding reduction in the number of assemblies removed for performance in the field. All improvements will be applied by attrition at the depot.

3.81

	BUS Captal Bu	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	CAPITAL INVESTME Reliability, Maintaina (Dollars in Millions)	ESTMENT JUS intainability & Illions)	STIFICATION Supportability	/ Mod			A. Budget Submission	bmission	
B. Component/Business Area/Date					C. Line No.	Item Description	on		D. Activity Identification	entification	
Army, Depot Maintenance - Other			March 1996		97-R8	AH-64 Main R	AH-64 Main Rotor Pitch Housing	Ising	US Army Avia	US Army Aviation and Troop Command	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
AH-64 Main Rotor Pitch Housing					,				0.185		
					11.0						
TOTAL									0.185		
The current Teflon/fabric bushing will be changed to an electrolyses nickel pla	ill be change	d to an electrol	yses nickel pla	ted bushing in	npregnated with	th Teflon. This	will improve th	e bushing's da	mage and wea	ted bushing impregnated with Teflon. This will improve the bushing's damage and wear capability and allow change in the	the
bushing tolerances to eliminate the existing line ream requirement. The outer	existing line	ream requirem	ent. The outer	pitch housing	shims will also	o be eliminated	by incorporati	ng the shims in	ito the new bus	pitch housing shims will also be eliminated by incorporating the shims into the new bushing design. The bushing will then	en
become replaceable at aviation intermediate maintenance (AVIM) level. The	ermediate ma	intenance (AVI)	M) level. The (change will be	incorporated	on new product	ion pitch hous	ng assemblies	. Existing pitcl	change will be incorporated on new production pitch housing assemblies. Existing pitch housings will be replaced by attrition.	irition.
Number of aircraft affected: 732											
SIR	6.40	0									

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		op Command				130) is a solid The function of the Le to corrosion. ational Guard				
mission		ntification ion and Tro				85-01-182-5 mponents. ire failure dt				
A. Budget Submission		D. Activity Identification US Army Aviation and Troop Command		Total Cost	0.081	is unit (NSN 66) re electronic cor ausing prematu approach with tl				
		Item Description AH-64 Environmental Control Unit Sensor	FY97	Unit Cost		sensor unit. In installed over the wer transistor of the sealant is	frequency.			
		in mental Contr		Quantity		ture control/ etal cover is rea of the pc rea of the pc units. A trial	replacement			
	Nod	Item Description AH-64 Environm		Total Cost		encu) tempera leat sink. A me collect in the a trofit to fielded	in sensor unit			
TIFICATION	Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	C. Line No. 97-R9	96	Unit Cost		Control Unit (E od to the body/F isture tends to isture, and by reture, and by re	67% decrease			
STMENT JUS	intainability & Ilions)			Quantity		Environmental ily, are mounte he ENCU. Mo valve. uring manufac	emonstrated a			
SAPITAL INVE	Reliability, Maintaina (Dollars in Millions)	March 1996		Total Cost		cement of the it card assemb charged from t rature control	trol unit has de			
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	get Category:		FY 95	Unit Cost		uency of repla cluding a circul of air being disc ig of the tempe control/sensor	mperature con	*		
BUSI	Captal Bud			Quantity		educe the freq omponents, in temperature of oper positionin sealant to the	aling of the ter			
		B. Component/Business Area/Date Army, Depot Maintenance - Other		Element of Cost	AH-64 Environmental Control Unit	The objective of this initiative is to reduce the frequency of replacement of the Environmental Control Unit (ENCU) temperature control/sensor unit. Insunit (NSN 6685-01-182-5130) is a solid state electrical device. Electronic components, including a circuit card assembly, are mounted to the body/heat sink. A metal cover is installed over the electronic components. The function of the temperature of air being discharged from the ENCU. Moisture tends to collect in the area of the power transistor causing premature failure due to corrosion. Failure of the sensor results in improper positioning of the temperature control valve. This initiative will apply a protective sealant to the control/sensor metal cover during manufacture, and by retrofit to fielded units. A trial of the sealant approach with the Florida National Guard	has been underway since 1989. Sealing of the temperature control unit has demonstrated a 67% decrease in sensor unit replacement frequency. SIR			
		B. Compone Army, Depot		Eler	AH-64 Envirc	The objective state electric temperature Failure of the This initiative	has been und SIR		·	

	BUS Captal Buo	SINESS AREA (dget Category:	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	STMENT JUS intainability & Ilions)	TIFICATION Supportability	Мод			A. Budget Submission	bmission	
B. Component/Business Area/Date	0				C. Line No.	Item Description	ion		D. Activity Identification	entification	
Army, Depot Maintenance - Other			March 1996		97-R10	AH-64 Main F	AH-64 Main Rotor Blade Surface Prep.	rface Prep.	US Army Avia	US Army Aviation and Troop Command	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
AH-64 Main Rotor Blade Surface									0.470		
The number of this initiative is to improve the cleaning of mating surfaces to	morowe the cle	soning of matin	n eurface to in	norowe bondin	d hefore anni	ving the curren	tadhesive to th	e spars of the	rotor blade T	improve handing before annihing the current adhesive to the spars of the rotor blade. The process will improve	
The purpose of this initiative is to improve the deathing of the current bond, surface preparation, enhancing the quality and durability of the current bond, the depot.	quality and d	urability of the	-	The change w	g before appri	ated for new bis	ades and will b	e included on	reided blades I	The change will be incorporated for new blades and will be included on fielded blades by attrition when returned to	
Number of aircraft affected: 732 at 4 blades per aircraft	at 4 blades pe	ar aircraft									
SIR	10.00	•									

	BUSINES	CARFAC	Little	-							
	Captal Budget Category: Reliability, Maintainability & Supportability Mod	Category:	APLLAL INVE	otainability & S	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION I Budget Categor: Reliability, Maintainability & Supportability I	Mod			A. Budget Submission	mission	
			(Dollars in Millions)	lions)							
B. Component/Business Area/Date					So.	Item Description	uo		D. Activity Identification	ntification	
Army, Depot Maintenance - Other		2	March 1996		97-R11	AH-64 Main Rotor Lead/Lag Link	otor Lead/Lag	Link Evo7	US Army Aviat	US Army Aviation and Troop Command	
Town of the second of the seco	- Although	1 mit Cost	Total Cont	Cushifte	I Init Cost	Total Cost	Ousnifty	I Init Coet	Total Cost		
l a		000	oral cost	Godalin	000	100	, contract		0.425		
TOTAL				-	1				0.425		
depot repair and shipping costs. AVIM level tooling and technical manual maintenance change procedures will be part of the modification. The Teflon/fabric bushing will also be changed to an electrolysis nickel plated bushing impregnated with Teflon. This will improve bushing damage and wear capability, preventing significant removals. The change will be on new bushings which will be replaced on a significant removals. The lead-lag damper and blade attachment will also be changed from bronze/aluminum to stainless steel, which will reduce wear and be more resistant to damage. This modification will be performed on new bushings and replaced through attrition.	Move maintain and the foot of	nd technica in the industrial ind	I manual main bushing dama bushing dama lent will also bushing attrition.	tenance chang ge and wear c e changed fror	personal per	will be part of the wall be part of the continuation of the contin	the modification and removals.	n. The Teflon The change w will reduce w	fabric bushing 'fabric bushing' Il be on new bu	will also be changed to an electro shings which will be replaced on e resistant to damage. This	ysis
SIR	5.30 Files pel allora	_									

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ilon	ation nd Troop Commar			· ·	
A. Budget Submission	D. Activity Identification US Army Aviation and Troop Command		Total Cost	006:0	
			Unit Cost		
	Item Description AH-64 PNVS Elevation Belt Assembly		Quantity		
Λοd	C. Line No. Item Description 97-R12 AH-64 PNVS Ele		Total Cost		
FIFICATION Supportability N	C. Line No. 97-R12	9	Unit Cost		
STMENT JUST intainability & S llions)			Quantity		
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	March 1996		Total Cost		
NESS AREA (get Category:		FY 95	Unit Cost		
BUS Captal Bud			Quantity		
	B. Component/Business Area/Date Army Denot Maintenance - Other		Element of Cost	AH-64 PNVS Elevation Belt Asse	

Damage to the Elevation Belt Assemblies results in system downtime for troubleshooting and repair. This modification will prevent damage to the Primary Night Vision Sight (PNVS) Elevation Belt Assemblies by mechanically shielding them from inadvertent impacts during shroud removal and handling. Port Side -- Replace the three socket head cap screws (NAS1352-04-6P) with threaded standoffs of sufficient height to clear the pulleys. A sheet metal detail will be attached to the standoffs and cover the unprotected area of the belt assembly between the pulleys.

Starboard Side -- A detail will be designed which mounts on the exterior of the elevation mirror frame assembly and between the bushings. The detail will be clamped and bonded to make it an moroved as a result of this change. System maintainability is affected by this change; however, increases in PNVS repair time lines are negligible. Interchangeability is not affected by this integral part of the frame assembly. A sheet metal detail will attach to the clamped-on detail and cover the unprotected area of the belt assembly between the pulleys. System reliability is change.

Retrofits will be accomplished upon return of the affected assemblies to the depot.

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10.00

ubmission	D. Activity Identification US Army Aviation and Troop Command				vent wire breakage caused						
A. Budget Submission	D. Activity Identification US Army Aviation and Te		Total Cost	0.420	relief will previchangeability						
		FY97	Unit Cost		le. The strain- ability and inte						
	oud Harness		Quantity		e harness cab						
pop	Item Description AH-64 Day Shroud Harness		Total Cost		lef wire into the						
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	C. Line No. 1 97-R13	99	Unit Cost		steel strain-rel						
STMENT JUS: intainability & (lions)			Quantity		ing a stainless mproved as a i	pot.					
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION I Budget Category: Reliability, Maintainability & Supportability (Dollars in Millions)	March 1996		Total Cost		ness by install n reliability is it	roud to the de					
NESS AREA (FY 95	Unit Cost		ice shroud har ement. Syster	ffected Day St					
BUSI Captal Bude			Quantity		ige of the anti- val and replace	return of the a	3.70				
	B. Component/Business Area/Date Army. Depot Maintenance - Other		Element of Cost	AH-64 Day Shroud Harness	This modification will prevent breakage of the anti-ice shroud harness by installing a stainless steel strain-relief wire into the harness cable. The strain-relief will prevent wire breakage caused by overstresses during shroud removal and replacement. System reliability is improved as a result of this change while system maintainability and interchangeability are not affected.	Retrofits will be accomplished upon return of the affected Day Shroud to the depot.	SIR				

B. Component/Business Area/Date)(E	teliability, Maintaina (Dollars in Millions)	ons)	Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	Mod					
- C			March 4006		C. Line No.	C. Line No. Item Description	on Noce Gearbox	Oil Dump	D. Activity Identification	D. Activity Identification	
Army, Depot Maintenance - Other	FY 95		000		FY 96	ביים ביים	Social Control	FY97		200	
Element of Cost Quantity	ntity Unit Cost	-	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Dox Oil P							·		0.310		

procedure. The change will also add a filter screen at the pump inlet and improve internal circulation of lubricant to the oil pump bearings. The change will reduce nose gearbox field removals, reduce nose gearbox depot returns, and reduce the cost of depot repair of the nose gearbox through a reduction in replacement cost of the new cartridge pump. The change will be incorporated through attrition at the depot.

Number of aircraft affected: 732 at 2 units per aircraft

7.00

SIR

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nission	D. Activity Identification US Army Communications and Flectronics Command				gn/reengineering effort be ihough a failure usually v removal and gn, and logistics support Failures, thereby The headsets are
A. Budget Submission	D. Activity Identification US Army Communication		Total Cost	1.169	right earcup. This is both impractical and costly. It is proposed that a redesign/reengineeri right earcup. The present design calls for discarding the entire headset assembly, even though a failur performed to qualify the addition of a connector to the existing headset, which would allow removal and isociated requirements of developing drawings, test and evaluation of the proposed redesign, and logistic that of replacing complete headsets. Effectively, this will double the Mean Time Between Failures, there he earcup assembly will be done either in an organizational shop or by the soldier himself. The headset he Infantry Fighting Vehicle (IFV), and the M109 Paladin.
,	/IS) Headset	FY97	Unit Cost		stly. It is proposentire headset; waluation of the valuation of the double the Meal shop or by the
	Item Description Vehicle Intercom System (VIS) Headset		Quantity		ractical and cost discarding the extor to the exings, test and exitively, this will an organization and 9 Paladin.
Mod	Item Description		Total Cost		rement of both earphones. This is both impractical and corright earcup. The present design calls for discarding the sperformed to qualify the addition of a connector to the exsociated requirements of developing drawings, test and exsociated requirements of developing drawings, test and estrong assembly will be done either in an organization the earcup assembly will be done either in an organization the Infantry Fighting Vehicle (IFV), and the M109 Paladin.
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	C. Line No. 97-R15	FY 96	Unit Cost		earphones. Tr The present d qualify the add rements of dev ing complete he mbly will be d hting Vehicle (
restment Ju faintainability & Millions)			Quantity		ement of both right earcup. performed to o ssociated requissociated requise earcup assented infantry Fight
CAPITAL INVESTME : Reliability, Maintaina (Dollars in Millions)	March 1996		Total Cost		ires the replac
SINESS AREA		FY 95	Unit Cost		earphone requestration of earphone requestration of the redesign effort and failure at a street and the M1A1
BU Captal Bu	ej.		Quantity		on of only one e ent removal/rep of earcups. An assemblies. Th b. be replaced up t costs by 35%, icles including the cost of
	B. Component/Business Area/Date		Element of Cost	Vehicle Intercom System (VIS) He	Currently, the fallure or deptadation for lot you be earbhone sequegate are better the fortight earbours. This is but improach that are designation for the undergenerated representations the graduation of only one state of setting headset assembly, even though a failure usually involves only one side of the pair of earcups. An engineering analysis will be performed to qualify the addition of a connector to the existing headset, which would allow removal and involves only one side of the pair of earcups. An engineering analysis will be performed to qualify the addition of a connector to the existing headset, which would allow removal and replacement of individual earcup assemblies. The redesign effort includes associated requirements of developing drawings, test and evaluation of the proposed redesign, and togistics support individual earcup assemblies can be replaced upon failure at a cost only half that of replacing complete headsets. Effectively, this will double the Mean Time Between Failures, thereby decreasing life cycle O&S headset costs by 35%. The replacement of only one earcup assembly will be done either in an organizational shop or by the solider himself. The headsets are utilized in a variety of combat vehicles including the M1A1 and M1A2 tanks, the infantry Fighting Vehicle (IFV), and the M109 Paladin. 10.00 10.00

Component/Business Area/Date Component/Business Area/Date Component/Business Area/Date Trive, Depot Maintenance - Other Element of Cost Component/Business Area/Date Trive Cooler Life Improvement Element of Cost Command Command Command Command Command Command Command Command FY 96 FY 97 FY 96 FY 96 FY 97 FY 96 FY 96 FY 97 FY 96 FY 96 FY 97 FY 96 FY 96 FY 97 FY 96 FY 96 FY 97 FY 96 FY 97 FY 96 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 97 FY 96 FY 96		BUS	SINESS AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	STMENT JU	STIFICATION				A. Budget Submission	omission
Alarch 1996 G. Line No. Item Description FY 95 FY 96 FY 97 Quantity Unit Cost Total Cost Quantity Unit Cost Quantity Unit Cost		Captal Buc	dget Category:	Reliability, Ma (Dolfars in Mi	sintainability & illions)	Supportability	Mod				
Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost	. Component/Business Area/Date			March 1996		C. Line No. 97-R16	Item Description	on ooler Life Impr	rovement	D. Activity Ide US Army Com	ntification munications and Electronics Command
Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Total			FY 95			FY 96		-	FY97		
	Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	Linear Drive Cooler Life Improvem									0.937	

	TOTAL									0.937	

This initiative would replace certain linear coolers having a 4,000 hour Mean Time To Failure (MTTF) with 10,000 hour MTTF linear coolers, through forward fitting first and second generation thermal imaging systems on the Aviation B-Kit, HTI, and ITAS. The engineering analysis and redesign efforts for this modification address the use of flexure springs to improve service life. Form, fit and function of the coolers are not affected; therefore system applications will not change.

nour MTTF linear drive coolers into programs planned with 4,000 MTTF linear drive coolers. Linear drive coolers have already been developed and qualified for system use and are being used Economic analyses for two of the five linear drive coolers in the Army DoD inventory (1 and 1.75 Linears) indicate that a 60% operating cost reduction can be achieved by forward fitting 10,000 in several Army, Navy and Air Force programs.

system. When the cooler fails, the thermal receiver unit is removed from the system platform and returned to direct/intermediate support for repair. The cooler/dewar is replaced in the Line Although the linear drive technology has significantly improved the life of the coolers used in thermal systems by as much as 10 times, the cooler is still the least reliable component in the Replaceable Unit and sent back to the depot. The cooler is removed, thrown away, and replaced with another unit.

	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	C. Line No. Item Description D. Activity Identification	March 1996 97-R17 AN/VVS-2 NV Viewer Needle (Purge) Valv US Army Communications and Electronics Command	FY 96 FY 97	Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost	0.241
	APITAL INVESTMENT JUSTIFICATION	Reliability, Maintainability & Supportability Mod (Dollars in Millions)	C. Line No. Item De.	97-R17	FY 96	Quantity Unit Cost	
B. Component/Business Area/Date Army, Depot Maintenance - Other Element of Cost AN/VVS-2 NV Viewer Needle (Pur	BUSINESS AREA C	Captal Budget Category:			FY 95	_	

This will significantly improve the seal to block the leakage of nitrogen, and make a purge of the viewer necessary only once a year. The manufacturer of the viewer has already designed a new ralve and proposed its adoption as a Value Engineering Change Proposal. Manufacturer's testing has demonstrated a significant reduction in the VVS-2's leakage rate.

problems, the large quantity of VVS-2 viewers in service with the Army require fresh nitrogen purges every six months. A new valve design, which incorporates a rubber o-ring, greatly improves The existing needle (purge) valve on the VVS-2 night vision viewer has a poor seal and permits too much loss of nitrogen gas. Because of the loss of gas pressure, which creates moisture he gas seal and permits the re-purging cycle to be extended to one year.

vractice, this has caused sufficient leakage of nitrogen to make it necessary to purge each viewer with a fresh charge of nitrogen gas every six months. Using units usually take all their viewers valve is approximately the size of a pencil's eraser. The existing valve design is made of stainless steel and is screwed into the aluminum exterior of the viewer using metal-to-metal contact. In The viewers use optics which are exposed to rapidly varying temperatures and moisture levels during missions. To avoid fogging of the optics from internal condensation, the housings holding the optics are charged with nitrogen gas to maintain a positive overpressure of nitrogen inside the viewer housing. Each viewer has two valves used to introduce nitrogen into the interior. The he VVS-2 is an image intensification night vision device. It is widely used on Abrams, Bradley, Paladin, M113 APC, M88 Tracked Recovery Vehicle, the M728, and Marine Corps vehicles. o a DS repair shop for purging at the same time. Because of the labor involved and the large number of viewers, the expense is substantial.

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B. Component/Business Area/Date C. Line No. Item Description Item Description D. Activity Identification Army, Depot Maintenance - Other Element of Cost FY 95 FY 96 FY 96 FY 97 Init Cost Total Cost Total Cost Communications and Electronics Command PP-7815 Power Processor Redesi Quantity Unit Cost Total Cost Unit Cost Total Cost D. Activity Identification PP-7815 Power Processor Redesi Quantity Unit Cost Total Cost Unit Cost Total Cost D. Activity Identification PP-7815 Power Processor Redesi Quantity Unit Cost Total Cost Unit Cost Total Cost D. Activity Identification PP-7815 Power Processor Redesi Quantity Unit Cost Total Cost D. Activity Identification		BUS Captal Bux	iNESS AREA iget Category:	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	STMENT JU- intainability 8 illions)	STIFICATION Supportability	/ Mod			A. Budget Submission	omission
Auantity Unit Cost Total Cost Quantity Unit Cost Total Cost Quantity Unit Cost Ouantity Unit Cost	B. Component/Business Area/Date Army, Depot Maintenance - Other	o.		March 1996		C. Line No. 97-R18		on er Processor R		D. Activity Ide US Army Com	ntification munications and Electronics Command
Quantity Unit Cost Total Cost Quantity Unit Cost Total Cost Total Total			FY 95			FY 96			2		
	Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	PP-7815 Power Processor Redesi									0.256	
	TOTAL									0.256	

redesigned to make it more maintainable and reliable. The current design is very difficult to maintain and has demonstrated suspect reliability in the field. The redesigned unit will be modular in The PP-7815 is a power processor which is installed in Mobile Subscriber Equipment and the AN/TTC-39 Switch. There are approximately 1500 PP-7815 units in the field. The PP-7815 will be nature, easier to troubleshoot, and will employ more reliable components and design practices.

washed out units. Redesigned units will be bought off this contract. The unit price for the new unit is estimated to be the same as for the current design. Phase-in of new design will be gradual Current units are experiencing a 24% washout rate, which is expected to increase as units approach the end of their useful life. There is currently a production contract in place to replace (about 20% per year) until FY 2002 when all redesigned PP-7815s are in the field.

The PP-7815 redesign initiative will include the following configuration changes: modular components, reduced number of parts, organized component layout, and external adjustment voltage controls. The redesigned PP-7815 will have a higher Mean Time Before Failure due to fewer and more reliable components, and allow the field to perform external voltage adjustments, eliminating depot returns. The washout rate is expected to be reduced to 2% due to fielding of newer items.

10.00

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C. Line No. Item Description 97-R19 Advanced QUICKLOOK Surveillance Syst US Army Communications and Electronics Command FY 96 Notic Cost Total Cost Quantity Unit Cost 1.226 Onit Cost Total Cost Streem temperature swings realized in the alroraft pods the depot. A redesign to provide a common printed wiring board backplane will provide a much more ackplane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 and harness connectors. This will improve reliability. In the unlikely event there is a problem with the ledepot. There are 96 of these systems fielded on surveillance aircraft with an additional 204 and harness connectors. This will improve reliability. In the unlikely event there is a problem with the ledepot. The depot.	e de de	C. Line No. Item Description 97-R19 Advanced QUICKLOOK Surveillance Syst US Army Communications and Electronics Commander FY 97 Unit Cost Total Cost Quantity Unit Cost Total Cost Unit Cost Total Cost Total Cost Aredesign to provide a common printed wiring between its 22 modules. Extreme temperature swings realized in the aircraft pods the depot. A redesign to provide a common printed wiring board backplane will provide a much more ackplane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 and harness connectors. This will improve reliability. In the unlikely event there is a problem with the te depot. The depot. The common printed with the common printed which will substantially reduce the time to replace all current IFPs.	C. Line No. Item Description O. Activity Identification FY 96 Unit Cost Unit Cost Unit Cost Unit Cost Total Cost Unit Cost Total Cost Total Cost Total Cost Unit Cost Total Cost Unit Cost Total Co	C. Line No. Item Description 97-R19 FY 96 Unit Cost Total Cost Quantity Unit Cost Total Cost 1.226 Unit Cost Total Cost Quantity Unit Cost 1.226 Unit Cost Total Cost Outlies. Extreme temperature swings realized in the africard pods re depot. A redesign to provide a common printed wiring board backplane will provide a much more explane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 and harness connectors. This will improve reliability. In the unlikely event there is a problem with the depot.	C. Line No. Item Description 97-R19 Advanced QuickLOOK Surveillance Syst US Army Communications and Electronics Comman FY97 Unit Cost Total Cost Quantity Unit Cost 1226 Obit wiring between its 22 modules. Extreme temperature swings realized in the aircraft pods depot. A redesign to provide a common printed wiring board backplaine will provide a much more plane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 tharness connectors. This will improve reliability. In the unlikely event there is a problem with the epot. ad which will substantially reduce the time to replace all current IFPs.	C. Line No. Item Description 97-R19 Advanced QUICKLOOK Surveillance Syst IUS Army Communications and Electronics Commar FY 97 Unit Cost Total Cost Quantity Unit Cost Total Cost 1.226 Unit Cost Total Cost Total Cost Acedesian to provide a much more pepot. A redesign to provide a common printed wiring board backplane will provide a much more plane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 a harness connectors. This will improve reliability. In the unlikely event there is a problem with the epot. ad which will substantially reduce the time to replace all current IFPs.	C. Line No. Item Description 97-R19 Advanced QUICKLOOK Surveillance Syst US Army Communications and Electronics Comman FY 96 Unit Cost Total Cost Total Cost Ouantity Unit Cost Total Cost 1.226 point wiring between its 22 modules. Extreme temperature swings realized in the alicraft pods depot A redesign to provide a common printed wiring board backplane will provide a much more plane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 d harness connectors. This will improve reliability. In the unlikely event there is a problem with the epot. ad which will substantially reduce the time to replace all current IFPs.	C. Line No. Item Description 19. Activity Identification 19. 12.26 Unit Cost Total Cost Quantity Unit Cost Total Cost 1.226 In a description Deliver is 22 modules. Extreme temperature swings realized in the alrcraft pods e depot. A redesign to provide a common printed wiring between its 22 modules. Extreme temperature swings realized in the alrcraft pods e depot. A redesign to provide a common printed wiring board backplane will provide a much more kplane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 and harness connectors. This will improve reliability. In the unlikely event there is a problem with the depot. The which will substantially reduce the time to replace all current IFPs.	C. Line No. Item Description C. Activity Identification FY 97 Unit Cost Unit Cost Unit Cost Unit Cost Unit Cost Total	C. Line No. Hem Description G. Line No. Hem Description FY 96 In Cost Total Cost Cuantity Unit Cost Total Cost
C. Line No. Item Description 97-R19 Advanced QUICKLOOK Surveillance Syst US Army Communications and Electronics Command FY 96 FY 96 Unit Cost Total Cost Quantity Unit Cost Total Cost 1.226 point wiring between its 22 modules. Extreme temperature swings realized in the aircraft pods signature. There are 96 of these systems fielded on surveillance aircraft with an additional 204 dharness connectors. This will improve reliability. In the unlikely event there is a problem with the lepot. ed which will substantially reduce the time to replace all current IFPs.	C. Line No. Item Description 97-R19 FY97 Lurit Cost Total Cost Countity Identification FY97 Unit Cost Total Cost Tota	C. Line No. Item Description 197-R19 10 Activity Identification 10 Activity Identification 11 Advanced QUICKLOOK Surveillance Syst IUS Army Communications and Electronics Command 12 Advanced QUICKLOOK Surveillance Syst IUS Army Communications and Electronics Command 12 Advanced QUICKLOOK Surveillance Systems 13 Advanced QUICKLOOK Surveillance Systems 14 Advanced QUICKLOOK Surveillance Systems 15 Advanced QUICKLOOK Surveillance Systems 16 Advanced QUICKLOOK Surveillance Systems 17 Advanced QUICKLOOK Surveillance Systems 18 Advanced QUICKLOOK Surveillance Systems 19 Advanced QUICKLOOK Surveillance Systems 19 Advanced QUICKLOOK Surveillance Systems 10 Advanced QUICKLOOK Surveillance Systems 11 Advanced QUICKLOOK Surveillance Systems 12 Advanced QUICKLOOK Surveillance Systems 13 Advanced QUICKLOOK Surveillance Systems 14 Advanced QUICKLOOK Surveillance Systems 15 Advanced QUICKLOOK Surveillance Systems 16 Advanced QUICKLOOK Surveillance Systems 17 Advanced QUICKLOOK Surveillance Systems 17 Advanced QUICKLOOK Surveillance Systems 17 Advanced QUICKLOOK Surveillance Systems 18 Advanced QUICKLOOK Surveillance Systems 19 Advanced QUICKLOOK Surveillance Systems 19 Advanced QUICKLOOK Surveillance Systems 10 Advanced Systems 10	C. 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Line No. Item Description FY 96 FY 97 Unit Cost Total Cost Cuantity Unit Cost Total Cost 1 Opinit wiring between its 22 modules. Extreme temperature swings realized in the aircraft pods depot. A redesign to provide a common printed wiring board backplane will provide a much more plane. There are 96 of these systems fielded on surveillance aircraft with an additional 204 and harness connectors. This will improve reliability. In the unlikely event there is a problem with the epot. In the will substantially reduce the time to replace all current IFPs.	C. Line No. Item Description O. Activity Identification 97-RP9 Fy 96 Unit Cost Total Cost T	C. Line No. Item Description G. Line No. Item Description G. Line No. G. Advanced CUICKLOOK Surveillance Syst US Amy Communications and Electronics Comman. FY 96 FY 97 Unit Cost Total Cost Total Cost Total Cost Luiz Definition between its 22 modules. Extreme temperature swings realized in the aircraft pods seport. 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	BUSI Captal Budț	BUSINESS AREA CAPITAL INV I Budget Category: Reliability, M (Dollars in N	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)	ESTMENT JUSTIFICATION initainability & Supportability fillions)	Supportability	Mod			A. Budget Submission	omission
B. Component/Business Area/Date Army, Depot Maintenance - Other			March 1996		C. Line No. 97-R20	Item Description AN/PRD-12 Dire	Item Description AN/PRD-12 Direction Finding Set	Set	D. Activity IdentificationUS Army Communication	D. Activity Identification US Army Communications and Electronics Command
		FY 95			FY 96			FY97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
AN/PRD-12 Direction Finding Set									1.573	
				i.		11000		1 1 1	H	
The AN/PRD-12 is a lightweight man-transportable rapid direction finding system. The AN/PRD-12 includes the ID-2465/PRD-12 hand held display unit. The ID-2465 components include a liquid crystal display (LCD) keypad and a direction finding circuit card. The ID-2465 has a high failure rate due to LCD breakage during keypad use. Currently there is no manufacturing source to repair or replace the broken LCD keypads. Of the 208 fielded units, 52 cannot be issued for this reason. The current design of the display unit is rapidly becoming obsolete, making it insupportable and driving up costs. The proposal seeks to develop a commercial functional replacement which does not depend on the LCD or MIL-SPEC components. Reliability will also be increased by a factor of 2 by using a different type of display. Current units are experiencing almost 100% washout rate. At this rate, all current units will be non-operational in 19 months. Redesigned units can be designed, qualified and produced within two years.	in-transportable and a direction keypads. Of the proposal a different type qualified and the contraction of	e rapid direction finding circuinthe 208 fielde seeks to dew of display. Cproduced with	on finding syste it card. The ID-d units, 52 carn elop a commer. Current units ar iin two years.	em. The AN/P 2465 has a hi not be issued i cial functional. e experiencing	PRD-12 include figh failure rate for this reason replacement w j almost 100%	is the ID-2465/f due to LCD bre . The current d rhich does not c washout rate.	PRD-12 hand t sakage during ∣ lesign of the di tepend on the At this rate, al	teld display un keypad use. C splay unit is ra LCD or MIL-SI I current units !	it. The ID-2465 turrently there in pidly becoming pEC componer will be non-ope	o components include a s no manufacturing source tobsolete, making it uts. Reliability will also be rational in 19 months.
SIR	6.18									

				TOTAL The purpose of this initiative is to enhance unit training through increased reliance on simulation rather than use of expensive tactical weapon systems. The Fire Control Panel Troop Proficiency Trainer (FCP-TPT) simulates fire control for the Multiple Launch Rocket System (MLRS) and will be mounted in approximately 171 High Mobility Multi-Wheeled Vehicles (HMMWVs). Significant O&S savings will accrue based on this system fielding. SIR 7.23	
nission	tification Command			TOTAL The purpose of this initiative is to enhance unit training through increased reliance on simulation rather than use of expensive factical weapon systems. The Fire Control Panel Troo Proficiency Trainer (FCP-TPT) simulates fire control for the Multiple Launch Rocket System (MLRS) and will be mounted in approximately 171 High Mobility Multi-Wheeled Vehicles (HMMWVs). Significant O&S savings will accrue based on this system fielding. 7.23	
A. Budget Submission	D. Activity IdentificationUS Army Missle Command		Total Cost 4.380	4.380 cal weapon syskimately 171 Hig	
	CP-TPT	FY97	Unit Cost	expensive tact	
	Item Description HMMWV Mounted MLRS FCP-TPT		Quantity	er than use of	
CATION portability Mod	Item Description		Total Cost	imulation rath	
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION I Budget Category: Reliability, Maintainability & Supportability (Dollars in Millions)	C. Line No. 97-R21	96	Unit Cost	d reliance on s nch Rocket Sy, lelding.	
APITAL INVESTME Reliability, Maintains (Dollars in Millions)			Quantity	ough increase e Multiple Lau n this system !	
SS AREA CAP Category: Reli (D	March 1996		Total Cost	unit training the control for the corrue based o	
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)		Y 95	Unit Cost	is to enhance () simulates fr	
	/Business Are.		Quantity	f this initiative I timer (FCP-TP1) significant O&S	
	B. Component/Business Area/Date Army Denot Maintenance - Other	Today (fill)	HMMWVV Mou	TOTAL The purpose of this initiative is to enhance unit training through increased relian Proficiency Trainer (FCP-TPT) simulates fire control for the Multiple Launch Roc (HMMWWs). Significant O&S savings will accrue based on this system fielding. SIR 7.23	

	9			
nission	D. Activity Identification US Army Tank and Automotive Command			
A. Budget Submission	D. Activity Identification US Army Tank and Auto		Total Cost	0.807
		FY97	Unit Cost	
	on Ring Upgrade		Quantity	
ром	C. Line No. Item Description 97-R22 M1 Series Slip Ring Upgrade		Total Cost	
TIFICATION Supportability I	C. Line No. 97-R22	FY 96	Unit Cost	
STMENT JUS tintainability & illions)			Quantity	
CAPITAL INVESTME Reliability, Maintaina (Dollars in Millions)	March 1996		Total Cost	
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Reliability, Maintainability & Supportability Mod (Dollars in Millions)		FY 95	Unit Cost	
BUS Captal Bud			Quantity	
	B. Component/Business Area/Date Army, Depot Maintenance - Other		Element of Cost	M1 Series Slip Ring Upgrade

continuous relative motion. Modifications are needed to the current system to reduce certain types of failures resulting primarily from moisture seapage and wire chafing. The current system will be modified as follows: The Slip Ring Assembly is a device which provides continuity of electrical circuits, high pressure hydraulic fluid and low pressure filtered air between the hull and turret structures throughout

- Redesign dynamic sealing internal to the slip ring.
 Use higher strength screws on upper hydraulic assembly.
 Provide antichafing guard to protect static internal wiring.

There are 6,599 systems to be modified.

8.36

SIR

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A. Budget Submission	 D. Activity Identification US Army Tank and Automotive Command 		Total Cost	5.050	nen.e	This initiative will incorporate leading edge technology to provide replacement parts with redesign and producibility improvements which will result in an average savings of 25% in unit costs. Focus will be on the 10 most costly repair items. The Stevens Institute of Technology in Hoboken, NJ has created the Automated Concurrent Engineering Software (ACES) system, a technology which can lower unit manufacturing costs by concurrently optimizing all steps from design through production. This is accompished by managing the constraints imposed by the complex interdependencies of all the steps in the process — material selection, product design, process specifications, tool fabrication, and cost estimation. This effort will also create a highly useful module within ACES for the selected part families which converts military standards to performance-based specifications which will permit all qualified commercial suppliers to compete for these replacement parts contracts. This added dimension of the proposed program will reduce cost through identification of a minimum set of optimum performance-based specifications utilizing broad-based specifications for the selected part families. This program will focus on making procurement cheaper for the 10 items which are most costly to repair.		
₹	D. A US A	1 [+			an aver are (ACE id by the useful m ese repla proad-bas		
		FY97	Unit Cost			vill result ir ring Softwa nts impose te a highly pete for th s utilizing b		
	arts		Quantity			ents which value ent Enginee he constrail he constrail also crea liers to comilers to compecifications		
° A	Item Description TACOM Top 10 Parts	-				nproveme Concurre anaging the s effort wi cial supple -based sp		
Mod	Item Description TACOM Top 10		Total Cost			ucibility in tomated ned by maned by maned by maned by commer formance formance		
IVESTMENT JUSTIFICATION Maintainability & Supportability Mod i Millions)	C. Line No. 97-R23	FY 96	Unit Cost			and prodited the Augusted the Augusted accompisions ost estimated and ille qualified timum per tepair.		
JUSTIFICITY & Supp	C. Line 97-R23					redesign I has crea I. This is on, and c on, and c set of op		
VESTMENT Maintainabili Millions)			Quantity			parts with boken, N. boken, N. broduction of fabrication is which will minimum hare mos		
BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION I Budget Category: Reliability, Maintainability & Supportability (Dollars in Millions)	March 1996		Total Cost			placement blogy in Ho n through p cations, to ecification cation of a items which		
REA CAF gory: Re (D	M		_			of Technor om desig ss specific based sp gh identific or the 10		
SINESS A		FY 95	Unit Cost			iology to I i Institute all steps fi gn, proce formance cost throu	_	
BUSINESS AREA CAPITAL IN Captal Budget Category: Reliability, (Dollars in			Quantity			This initiative will incorporate leading edge technology to provide replacement parts with redesign and proon the 10 most costly repair items. The Stevens Institute of Technology in Hoboken, NJ has created the manufacturing costs by concurrently optimizing all steps from design through production. This is accompin the process — material selection, product design, process specifications, tool fabrication, and cost estifumlies which converts military standards to performance-based specifications which will permit all qualificantion of the proposed program will reduce cost through identification of a minimum set of optimum prints program will focus on making procurement cheaper for the 10 items which are most costly to repair.	10.00	
	ea/Date				TOTAL	e leading items. T currently of election, pi lary stand program w		
	B. Component/Business Area/Date		of Cost			ncorporat stly repair its by con naterial se werts millt roposed t		
	onent/Bu	The Man	Element of Cost	TACOM Top 10 Parts		ative will in most contuined cost contuined cost contuined cost contuined co		
	B. Comp	in in		TACOM		This inition on the 10 manufac in the profamilies or dimension of This program	SIR	

		Business Ar Army De	rea Capit spot Mair (\$ in I	Business Area Capital Investment Summary Army Depot Maintenance, Ordnance (\$ in Millions)	: Summary Inance				
Line			F	FY 95	Ĺ	FY 96	ĹL.	FY 97	
Number	Description	O	Quantity	Total Cost	Quantity	Total Cost	Quantity	Total Cost	
97-A1 97-A3 97-A13	EQUIPMENT Replacement Various Capital Equipment <\$500K Bulk Dunnage Incinerator		4 4-	4.600	-	13.000		14.283	
97-A5 97-A12	Productivity Hi-Shear Mixer Loading Press Machine			0.659	2	1.300			
		TOTAL	က	5.842	က	14.300	7	15.054	•
97-A7 97-A8 97-A9 97-A10	ADPE & TELECOMMUNICATIONS Spery 5000 Personal Computers Fiber Optic Network Misc ADP <\$100K Life Cycle Replacement of ADPE Digital Conference Bridge (Telecommo)				500 -	2.400 2.000 0.327	9	0.160	
		TOTAL			. 50	4.862	53	0.270	
97-A6	MINOR CONSTRUCTION Various Minor Construction		2	0.717	13	2.600	4	2.145	
		TOTAL	7	0.717	13	2.600	14	2.145	
	GRANI	GRAND TOTAL	10	6.559	36	21.762	69	17.469	

DEPOT MAINTENANCE - ORDNANCE FY 1996 DBOF CAPITAL PURCHASES DEFERRALS, CANCELLATIONS, SUBSTITUTIONS

Army (Dollar in Thousands)

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Depot Maintenance - Ordnance - Crane Army Ammo Activity a. Replacement Equipment - Linear X-Ray Accelerator b. Cancelled c. Acquired a Linear X-ray at no cost from BRAC 95 initiative. This X-ray was obtained after the FY 1995 budget was submitted.	\$1,211
Depot Maintenance - Ordnance - Watervliet Arsenal a. Productivity Equipment - Plant Consolidation b. Cancelled c. Workload did not materialize. Funded workload did not justify cost of acquisition.	\$703
Depot Maintenance - Ordnance - Rock Island Arsenal a. ADPE & Telecommunications - Digital Conference Bridge b. Substituted Project c. The existing teleconference bridge has deteriorated to a critical point, further component failures will render the system inoperative.	\$135

\$135

	BUS	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	SAPITAL INVE	STMENT JU	STIFICATION		4		A. Budget Submission		
		Captal Budget Category: Equipment - Replacement (\$ in Millions)	Sategory: Equipn (\$ in Millions)	ıipment - Re _l ns)	olacement				FY 1997 Budget Estimate		
B. Component/Business Area/Date	e		March 1996		C. Line No. 97-A1	C. Line No. Item Description 97-A1 Various Capital E	Item Description Various Capital Equipment <\$500K		D. Activity Identification Various Installations	To the second se	
		FY 95			FY 96		-	97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Various Capital Equipment <\$500	-	4.600	4.600		13.000	13.000	-	14.283	14.283		
TOTAL			4.600			13.000			14.283		

and environmental compliance. All items have been examined during on-site reviews made by Headquarters technical and financial staffs. Items are supported by economic analyses, and installation and Includes various pieces of capital equipment needed by Depot Maintenance - Ordnance installations. The items support production via equipment replacement and upgrade, provide for mission capability command level prioritization.

Replacement of equipment is due to age, condition, or non-availability of spare parts. Items include production and general support machines such as lathes, mills, grinders, chemical and explosive

equipment and machine controls.

Productivity items improve efficiency and reduce cost for the Load Assemble and Pack; renovation and demilitarization of ammunition; production of defensive chemical items; and manufacturing of cannon and weapons components. These items include modern presses, grinders, inspection equipment and cutters, plus state-of-the-art machining centers and materiel handling equipment.

Meets customer requirements and takes advantage of business opportunities.

Environmental compliance provides an afternate electrical power feed for a fire protection system.

Impact to business area if funding is not provided: Excessive downtime and maintenance cost will be experienced due to equipment failure; an excessive reject rate and unnecessary cost will arise because productivity measures will not be implemented; and the potential for an environmental mishap will continue if the fire system is not provided with alternate power feed.

	8	Santess Area Carlial INVES Imeni 303 InfoAtro Captal Budget Category: Equipment - Replacement (\$ in Millions)	CAPITAL INVESTR Category: Equipm (\$ in Millions)	STMENT JUS ulpment - Rej ns)	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION Captal Budget Category: Equipment - Replacement (\$ in Millions)				A. Budget SubmissionFY 1997 Budget Estimate	9
B. Component/Business Area/Date Army, Denot Maintenance - Ordnance	le		March 1996		C. Line No. 97-A3	C. Line No. Item Description 97-A3 Bulk Dunnage Incinerator	on Incinerator		D. Activity Identification Pine Bluff Arsenal	
		FY 95			FY 96			FY 97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
Bulk Dunnage Incinerator							-	0.771	0.771	
TOTAL							_		0.771	

over a given period of time. The present system generates much less income because of lower capacity. The proposed Bulk Dunnage Incinerator has a capacity estimated at four times greater than the The current system used to burn and dispose of non-hazardous materials is the Car Bottom Incinerator which, due to the size and design, greatly limits the amount of materials that can be incinerated present system

Pine Bluff Arsenal sells the services of its incineration systems to the Department of Defense for disposal of a variety of items, including out-of-date medical supplies and out-of-date materiel. Without the new system, Pine Bluff Arsenal's medical waste and hazardous waste incineration programs will be limited in capacity based upon the existing method of disposal.

The Economic Analysis is completed. The present value of net increase in revenue from operations is \$14.0M; net value of new investment is \$700K; and, payback period is 5.1 months to one year.

\$ in Millions C. Line No. Item Decomposed C. Line No. Item D		BUS	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	SAPITAL INVE	STMENT JUS	TIFICATION				A. Budget Submission	nission	
C. Line No. Item Description PY 95		,		(\$ in Millio	(Suc	S				FY 1997 Budge	t Estimate	
FY 95	B. Component/Business Area/Date	0				C. Line No.	Item Descriptic	uc		D. Activity Iden	tification	
FY 95	Army, Depot Maintenance - Ordn	ance		March 1996		97-A5	Hi-Shear Mixer	_		McAlester Army	, Ammo Plant	
Int of Cost Quantity Unit Cost Total Cost Quantity Unit Cost Quantity Unit Cost Outling Unit Cost Unit Cos			FY 95			FY 96			FY 97			
1 1.200 1 0.100	Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	and a second sec	
2	Hi-Shear Mixer Installation					0.100						
	TOTAL				2	,	1.300					

mixing process allows two mixtures or 2,400 gallons in a ten-hour shift. The 2,400 gallons of mixture constitutes the controlling time in the total production process. This quantity can be mixed and loaded into is a static set to mix only 600 gallon quantities. A bowl full of mixture must be transferred into bomb bodies in the production line process within six hours due to set up qualities inherent in the mixture. The Currently, the Plastic Bonded Explosives bomb loading facility operates with two 600 gallon hi-shear mixers. The automated mixing facility fills and mixes two batches of PBX simultaneously. The process bombs in eight hours, leaving two hours of each ten-hour shift in which no PBX is available to load additional bombs.

The requested Hi-Shear Mixer allows the plant to mix sufficient PBX off line to load bombs for two additional hours. Additional requirements are for loading of High-speed Anti Radiation Missiles and the Harpoon Missile Warhead on third-part contracts and other planned and potential warhead and projectile loading. This mixer will greatly increase flexibility to load difference types of munitions simultaneously without disrupting scheduled workload, saving line changeover costs.

An Economic Analysis has been performed. The Savings to Investment Ratio is 3.23:1. Economic Life is 20 years and discounted savings during the economic life are \$4.1M.

Captal Budget Caregory: AUPL & Intercommunications		SUB	INESS AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	STMENT JUS	TIFICATION				A. Budget Submission	sion
C. Line No. Item Description Pry 95 Sperry 5000 Personal Computers		<u> </u>	ptal Budget C	ategory: ADPI (\$ in Millic	e & lelecomn ins)	unications				FY 1997 Budget Ea	stimate
FY 95	B. Component/Business Area/Dat	a)				C. Line No.	Item Description	E		D. Activity Identific	ation
FY 95 FY 96 FY 97 antity Unit Cost Total Cost Quantity Unit Cost FY 97 6 0.208 1.248 1.248 1.152 6 0.192 1.152 1.152 7 1.248 1.248 1.248 8 0.192 1.152 1.152	Army, Depot Maintenance - Ordi	nance		March 1996		97-A7	Sperry 5000 Pa	ersonal Compi	uters	Various Installation	S
Quantity Unit Cost Total Cost Quantity Unit Cost Quantity Unit Cost 6 0.208 1.248 1.152 1.152 6 0.192 1.152 1.152 12 2.400 2.400			FY 95			FY 96			FY 97		
6 0.208 6 0.192	Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
6 0.208 6 0.192 	Sperry 5000 Personal Computers										
6 0.192 TOTAL	Hardware				9	0.208	`				
12	Software				9	0.192					
12											
12											
12											
12											
12					,		0 400				
	TOTAL				71		Z.400				

Sustainment costs are reduced dramatically as the workload of the current systems can be consolidated. Significant reductions in hardware and software maintenance and operation support requirements Current systems are supported with aging Unisys computers that are expensive to maintain and cannot support emerging requirements. This project replaces Unisys computers with computers that have wide access to corporate data and reduces overall costs. Migration to an open systems environment can be achieved through the acquisition of standard compliant hardware and software components. greater processing power and system capacity which supports emerging requirements and provides the infrastructure required to implement client-server architecture. This leads to greater commandare realized. Depending on the number of concurrent users and specific processing environment costs, sustainment costs may be consolidated to a 12 to 1 ratio.

The alternative is to continue to use existing computers which results in the continued high maintenance costs with the eventual risk of complete system failure due to lack of parts and system software.

Personal computers are for the following activities: Watervliet Arsenal, Crane Army Ammo Activity, Pine Bluff Arsenal, Rock Island Arsenal, and McAlester Army Plant.

The Economic Analysis is completed. The Savings to Investment Ratio is 3:1; Payback period is 3 years; and, Net Present Value of Savings is\$790K.

	BUSI	NESS AREA	CAPITAL INVE	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	STIFICATION				A. Budget Submission	mission	
	Cap	tal Budget Ca	ategory: ADPE & (\$ in Millions)	Captal Budget Category: ADPE & Telecommunications (\$ in Millions)	nunications				FY 1997 Budget Estimate	it Estimate	
B. Component/Business Area/Date	d)				So.		uı		D. Activity Identification	ıtification	
Army, Depot Maintenance - Ordnance	ance		March 1996		97-A8	Fiber Optic Network	twork		Crane Army Ammo Activity	ımo Activity	
		FY 95			FY 96			FY 97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Fiber Optic Network											
20 Base T-Ethernet Cable,											
Software, and Hardware					1.366						
Installation				-	0.634	0.634					
TOTAL				2		2.000					

The Fiber Optic Network project is a joint effort to extend the current modernization infrastructure presently being undertaken by the Crane Naval Surface Warfare Center (NSWC).

Currently, several isolated manufacturing sites have no connectivity to any computer facility. In fact, most buildings rely on an obsolete broadband network (installed in the early 1980s) characterized by nadequate site coverage and extremely high annual maintenance costs. As the Navy continues to upgrade its communication infrastructure, Crane Army Ammo Activity will not be able to afford the ncreased maintenance costs associated with the older system. Benefits to the business include lower annual maintenance fees to NSWC for network services and improved connectivity to ammunition surveillance, refurbishment, storage and shipping areas. Current network maintenance costs are \$400K per year; estimated fiber optic network maintenance costs are \$40K per year. In addition, a primary consideration is that the existing broadband network has a life expectancy of 2-3 years, after which significant performance deterioration and additional costs are expected.

by a new fiber optic network each year over the 10 year life-cycle. This is a Savings to Investment Ratio of 1.1.1. This ratlo is expected to improve due to improved network connectivity and refined cost rotal present worth of Network Replacement Costs is \$2.807M. A comparison of network replacement costs and current maintenance costs shows a net present worth of \$263K expected to be saved estimates.

	BUS	INESS AREA	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	STMENT JUS	TIFICATION				A. Budget Submission	bmission)
	ğ	ptal Budget Ca	Captal Budget Category: ADPE & lelecommunications (\$ in Millions)	e & Telecomn ins)	nunications				FY 1997 Budget Estimate	let Estimate	
B. Component/Business Area/Date	9				C. Line No.	C. Line No. Item Description	L.		D. Activity Identification	intification	
Army, Depot Maintenance - Ordnance	nance		March 1996		97-A9	Misc ADP <\$100K	00K		Crane/Rock Island	land	
		FY 95			FY 96			FY 97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		Total Cost
Misc ADP <\$100K											
Graphics Workstation (Hardware)					0.082						
RISC Processors (Hardware)				•	0.072	0.072					
CAD System Upgrade (Hardware)				-	0.058						
Desktop Software replacement				-	0.085	0.085	-	0.085	0.085		
Operating Software							~	0.045	0.045		
Mini computer replacement				-	0.030	0.030	-	0.030	0.030		
(Hardware)											
				•		000	C		0		
TOTAL				Ç		0.357	3		0.100		

These miscellaneous information management projects replace old/obsolete, and unrepairable equipment with current state-of-the-art equipment.

Graphics Workstation: Personal computers are needed to furnish upgraded customer service locally and access/use end-ammunition information world-wide. Project is exempt from Economic Analysis due to the absence of any choice or trade-off among alternatives.

Reduced Instruction Set Computer (RISC) Processors: Under the Standard Depot System redesign, systems must be able to operate under the Open Systems Interface (OSI). The existing systems are not OSI compatible and RISC processors (UNIX 5.4) are needed to be compliant and stay current with DoD standards.

Computer Aided Design (CAD) System Upgrade: This project is required to upgrade existing CAD system hardware and software to enhance present mechanical design capabilities and replace the current Medusa system which is 7 years old and is not expandable for future needs. Economic Analysis is completed

The software and hardware is required to replace current equipment which is obsolete.

Savings are realized through decreased maintenance and repair costs and reduced manhours to perform functions.

	BUS	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	CAPITAL INVI	ESTMENT JU	STIFICATION				A. Budget Submission	
	Ca Ca	Captal Budget Category: ADPE & Telecommunications (\$ in Millions)	ategory: ADPE & (\$ in Millions)	E & Telecom ons)	munications				FY 1997 Budget Estimate	
B. Component/Business Area/Date					C. Line No.	C. Line No. Item Description	nc nc		D. Activity Identification	
Army, Depot Maintenance - Ordnance	ance		March 1996		97-A10	Life Cycle Rep	Life Cycle Replacement of ADPE		Rock Island Arsenal	
		FY 95			FY 96	The state of the s		Υ 97		
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Total Cost
Life Cycle Replacement of ADPE								0.002	0.110	
TOTAL							20		0.110	
		A the Barner	Carlina As Abe D			1. (-1				

Life cycle replacement of hardware, software, and cabling connecting to the Rock Island Local Area Network (LAN). This equipment is mission essential in maintaining the communication links that allow Rock Island to access, inquire, and process transactions to remote hosts as well as maintaining access to E-mail and LANs for desktop automation.

Failure to acquire upgraded equipment causes the Department of Defense to be unable to maintain vital communication links with the Rock Island LAN, Defense Mega-Center, Defense Finance & Failure to perform life cycle replacement of obsolete network hardware causes the Director of Logistics (DOL) to continue to work with less than adequate tools necessary to perform the mission. Workplace automation efforts to improve production and efficiency are ineffective without continued surveillance and replacement of inadequate network equipment. Accounting Service, and other DOL customers.

	BUSIN	IESS AREA C	BUSINESS AREA CAPITAL INVESTMENT JUSTIFICATION	TMENT JUSTI	FICATION				A. Budget Submission	omission	
	Capt	Captal Budget Category: ADPE (\$ in Millior	egory: ADPE & (\$ in Millions)	& Telecommunications 1s)	nications				FY 1997 Budget Estimate	et Estimate	
B. Component/Business Area/Date					C. Line No.	Item Description	5		D. Activity Identification	ntification	
Army, Depot Maintenance - Ordnance			March 1996		97-A11	Digital Conference Bridge (Telecommo)	nce Bridge (Te	lecommo)	Rock Island Arsenal	senal	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Digital Conference Bridge (Telecommo)					0.135	0.135					
						A COMP.		of harden state lines	The building		
The fact and and included in the contract of t	to the same of the same	400 V 100 V		2000	or of throp pond	arote branches the	around ord		ייים בייים ביים בייים בייים בייים בייים בייים בייים בייים בייים בייים בי	Ten no londer	

manufactured and maintenance support has been discontinued. The teleconference bridge no longer provides satisfactory conferencing support as participants often drop off through no fault of The teleconference bridge currently in use was manufactured in 1984 and installed in 1985. It consists of three separate bridges that are connected by trunk lines. The bridges are no longer warehousing, and manufacturing support to the Defense effort. Numerous conference calls are required to coordinate schedules affecting delivery, acquisition, and transportation of items heir own. In addition, as bridges are connected for larger conference calls, the noise level often increases to a level that causes cancellation of the effort. Repair parts are only available naintenance, and delivery of items. The Digital Conference Bridge is fully compatible with the AT&T Systems 85 Electronic Telephone Switch installed at Rock Island Arsenal in 1985. hrough cannibalization of other older bridges that are no longer working. The Industrial Operations Command (IOC) has over forty subordinate installations providing maintenance, epaired, stored, or manufactured within the IOC. If additional circuit boards or system components fail, the system will be rendered inoperable resulting in delay of manufacturing,

This project replaces the old teleconference bridge with the AT&T Definity Switching System which comes equipped for 96 trunks and is expandable to 148 trunks. The new system requires considerably less maintenance and is fully automated to reduce the amount of telephone operator intervention.

Economic Analysis is completed. The benefit to investment ratio is .8.

	BUSIN	ESS AREA C		STMENT JUS	TIFICATION				A. Budget Submission	bmission	
	•	Captal Budget Category: (\$ in Milli		Millor Construction ons)	uonor				FY 1997 Budget Estimate	et Estimate	
B. Component/Business Area/Date					C. Line No.	Item Description	u.	Commence of the first section of the other section of	D. Activity Identification	ntification	
Army, Depot Maintenance - Ordnance	ance	~	March 1996		97-A6	Various Minor Construction	Construction		Various Installations	ations	
		FY 95			FY 96			FY97			
Element of Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost		
Various Minor Construction	7	0.102	0.717	13	0.200	2.600	41	0.153	2.145		
TOTAL	7		0.717	13		2.600	4		2.145		
Minor construction projects are needed to improve the infrastructure at Depot Maintenance - Ordnance installations. This includes minor modifications to real property, and upgrade of production, administration and plant utility areas. Examples include provision of handicapped access, improvement of materiel handling, replacement of plumbing, and ventilation and waste/storm water lines minor construction projects are required to comply with environmental, safety, or health regulations/inspections. Examples of impact if not funded are: Shutdown of plating facility, continued loss production, electrical service not in compliance with safety regulations, sewage systems not in compliance with environmental regulations, and boiler stacks in violation of the Environmental Protection Agency Clear Air Act. In addition, security fences are required to protect and secure ammunition.	eded to improve is. Examples inc uired to comply v compliance with addition, securi	the infrastruct clude provision with environm safety regula ity fences are	ure at Depot Mn of handicapp ental, safety, cutions, sewage	Aaintenance - ed access, im or health regul systems not i	Maintenance - Ordnance instarted access, improvement of more health regulations/inspections systems not in compliance wortect and secure ammunition.	allations. This nateriel handlir ons. Examples with environmen	includes minor ig, replacemen s of impact if no ntal regulations	modifications nt of plumbing of funded are: s, and boiler s	to real proper and ventilation Shutdown of I tacks in violatic	Minor construction projects are needed to improve the infrastructure at Depot Maintenance - Ordnance installations. This includes minor modifications to real property, and upgrade of production, administration and plant utility areas. Examples include provision of handicapped access, improvement of materiel handling, replacement of plumbing, and ventilation and waste/storm water lines. Many minor construction projects are required to comply with environmental, safety, or health regulations/inspections. Examples of impact if not funded are: Shutdown of plating facility, continued loss of daily production, electrical service not in compliance with safety regulations, sewage systems not in compliance with environmental regulations, and boiler stacks in violation of the Environmental Protection Agency Clear Air Act. In addition, security fences are required to protect and secure ammunition.	

Economic Analyses support these minor construction efforts.